

**CATALOGING RESOURCES and NEEDS  
for UM FLAGSHIP CONSTELLATIONS  
with the Research Resources Directory (R2D1)**

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October 11, 2017**

## What is the Research Resources Directory (R2D1)?

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A **centralized listing** of both centrally and locally administered resources of potential interest to a broad community of UM researcher/scholars, and internal and external stakeholders.

Provides a **common/standardized interface** with only the basic information about resources. Entries point users to “Web pages of record” or human points of contact for detailed info.

# Why Has the R2D1 Directory Been Created?

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- Called for in the UM2020 Strategic Plan.
- To **facilitate** cross-disciplinary **collaboration**, inter-institutional collaboration, and **sharing and utilization of resources**.
- To allow UM administrators and researchers **to respond quickly**, efficiently, accurately, and consistently to **external opportunities** and requests.
- To facilitate the development of **more complete, accurate, and competitive grant proposals**.

# What R2D1 is **NOT**

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- NOT a physical property control system.
- NOT a replication of information in Faculty Activity Report.
- NOT something that faculty will be required to use, get credit for using, or be punished for not using.
- NOT a replacement for, or replication of, departmental/local Web sites (rather, it is a central, standardized directory of pointers to those pages)

# What Kinds of Resources Should Be Listed?

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- Resources that others **outside of your department might want access**
- Capabilities you want others to know about
- Any capability that you would want to be considered for inclusion in institutional responses to outside inquiries
- Unique resources (e.g., a unique interdisciplinary course)
- Capabilities that could lead to enhanced collaboration

# What Kinds of Resources Should **NOT** Be Listed

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- Commodities and supplies
- Common or standard office or lab equipment (printers, desktop computers, golf carts, etc.)
- Courses that are only offered within your own department
- Resources that are too specialized or un-accessible to be of interest to others

# What Kinds of **NEEDS** Should Be Listed?

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- Needs that institutional leaders and administrators should know about so that they can help direct resources or seek funding sources to meet these needs
- Examples:
  - **Experts** in that would **compliment existing niche institutional strengths**
  - **Equipment** that would **enable more than one faculty member** to move their research to the next level
  - Etc.

# What Kinds of **NEEDS** Should **NOT** Be Listed

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- Anything that would **benefit only one faculty member or department**

# Glossary of Terms

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- **Entries** are records/listings in the R2D1 **Directory**.
- Each R2D1 **Entry** represents a real-world **resource** or **need**.
- Each real-world **Resource** or **Need** should be represented by only 1 directory **Entry**.
- A **Resource Entry** will generally have only **1 Category** that tell the what TYPE the real-world resource is. (*e.g., Instrumentation, Program*).
- A **Need Entry** will generally have **2 Categories**, one of which is “*Need or Gap*”, and the other is the category of the resource that is needed.
- An Entry may have zero or many **Applications** that tell what kinds of problems the corresponding real-world resource can address (*e.g., Disaster Resilience, Community Wellbeing, Human Health, etc..*)

# Flagship Constellations in R2D1

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- **Constellation Themes** are examples of **Applications**
- UM Flagship *Constellation focus areas/ gravitational themes/ research thrust areas* can also be implemented as Applications in R2D1
- **UM Flagship Constellation** is also a **Category** in R2D1

# How to Log In

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[www.research.olemiss.edu/r2d1](http://www.research.olemiss.edu/r2d1)

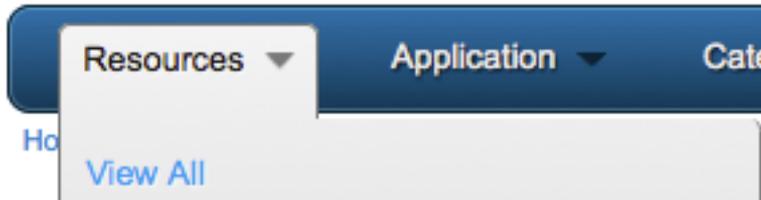
All UM/Oxford employees/  
students have read access to  
R2D1 with their WebId/password

Any UM/Oxford employee can be  
given write/edit access to R2D1

Special Accounts can be created  
to give UMMC employees read or  
write access to R2D1

The screenshot shows the 'UM Resource Directory' website with a 'Home' link. The main heading is 'Login'. Below the heading, there is a message: 'Please fill out the following form with your log' and a note: 'Fields with \* are required.' The form contains three fields: 'WebID/Username \*' (a text input field with a red border and a red error message below it: 'WebID/Username cannot be blank.'), 'Password \*' (a text input field), and 'Type \*' (a dropdown menu with 'WebID' selected). At the bottom of the form is a 'Login' button.

# View All Resources



Resources ▾ Application ▾ Cate  
Ho  
View All

All 1 2 3 4 5 6 7 8 9 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Displaying 1-10 of 3045 results.

## Filter Listing

Building

Organization

[+] Application

[+] Category

[+] Institution

[+] Origin Type

Apply Filter

### 25 inch Reflector Telescope

Category: *Instrumentation*

Edit

Summary

Add to Favorites

### 3 inch Supersonic Wind Tunnel Facility

Categories: *Facility or Laboratory, Instrumentation*

Edit

Summary

Add to Favorites

### 400 MHz Nuclear Magnetic Resonance (NMR) Spectrometers, 3 each

Category: *Instrumentation*

Edit

Summary

Remove from Favorites

### 500 MHz Nuclear Magnetic Resonance (NMR) Spectrometer

Edit

• [Show All Resources](#)

# View Summary of a Resource

Displaying 1-10 of 6070 results.

## 25 inch Reflector Telescope

Category: *Instrumentation*

Edit

Summary

Add to Favorites

## 3 inch Supersonic Wind Tunnel Facility

Categories: *Facility or Laboratory, Instrumentation*

Edit

Summary

Add to Favorites

## 400 MHz Nuclear Magnetic Resonance (NMR) Spectrometers, 3 each

Category: *Instrumentation*

Edit

Summary

Remove from Favorites

## 500 MHz Nuclear Magnetic Resonance (NMR) Spectrometer

Edit

# View Summary of a Resource

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## 3 inch Supersonic Wind Tunnel Facility

[Edit](#)

Categories: *Facility or Laboratory, Instrumentation*

[Summary](#)[Add to Favorites](#)

### Description

Provides full-length glass walls for excellent flow visualization and optical measurements. Utilizes a 200 hp two-stage Roots vacuum pump to pull air through the test section at up to Mach 3.

### Institution:

University of Mississippi

### Academic Department/Unit

NATIONAL CENTER FOR PHYSICAL ACOUSTICS

### Building

JAMIE L. WHITTEN NATL CTR FOR PHY ACSTS

### Contacts

Primary: [NATHAN MURRAY](#)

Secondary:

### Last Update

01/09/2015

[Full Listing](#)

# View Summary of a Resource

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## 3 inch Supersonic Wind Tunnel Facility

[Edit](#)

Categories: *Facility or Laboratory, Instrumentation*

[Summary](#)[Add to Favorites](#)

### Description

Provides full-length glass walls for excellent flow visualization and optical measurements. Utilizes a 200 hp two-stage Roots vacuum pump to pull air through the test section at up to Mach 3.

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### Building

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### Contacts

Primary: [NATHAN MURRAY](#)

Secondary:

### Last Update

01/09/2015

[Full Listing](#)

# View Full Listing of a Resource

## 3 inch Supersonic Wind Tunnel Facility

### Description

Provides full-length glass walls for excellent flow visualization and optical measurements. Utilizes a 200 hp two-stage Roots vacuum pump to pull air through the test section at up to Mach 3.

### Institution Name

University of Mississippi

### Organization Name

NATIONAL CENTER FOR PHYSICAL ACOUSTICS

### Last Update

10/06/2015

### Building Name

JAMIE L. WHITTEN NATL CTR FOR PHY ACSTS

### Contacts

Primary: [MURRAY, NATHAN](#)

### Location within Building

1111

Secondary:

### Urls

<http://ncpa.olemiss.edu/>

## Acknowledgements

Edit Applications

### Applications

#### Defense and Security

For aerodynamics testing

#### Transportation

For aerodynamics testing

Edit Categories

### Categories

#### Instrumentation

A sophisticated device, apparatus, or piece of equipment used for conducting science. For example, mass spectrometers, microscopes, telescopes, and vibrometers. Could also refer to a virtual instrument (such as a database).

# Categories: Resource Entries

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An Entry may be associated with Categories

- A Category is the fundamental TYPE of a resource
- Most Resource Entries will have only 1 Category; some may have 2 or 3.

## CEQ 800 Genetic Analysis System

Category: *Instrumentation*

[Summary](#)

[Add to Favorites](#)

## Hydrography Dataset GIS Tool

Categories: *Collection/Repository*, *Decentralized IT Service*

[Summary](#)

[Add to Favorites](#)

# Categories: Need Entries

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An Entry may be associated with Categories

- A Category is the fundamental TYPE of a resource
- Most Need Entries will have only 2 Categories;
  - The category of the needed resource, and
  - The additional category *Need*. This category is how we know this entry is for a need, not an existing resource.
- Example: The BIG DATA Flagship Constellation has a NEED for a Cyber Security Expert. Thus, they created an R2D1 Entry with two categories: Expert, and Need

**Need for Cybersecurity Expert**  
Categories: Expert Need  
[Summary](#) [Add to Favorites](#)

The screenshot shows a user interface for a resource entry. The title is 'Need for Cybersecurity Expert'. Below the title, the categories are listed as 'Expert' and 'Need'. There are two buttons: 'Summary' and 'Add to Favorites'. The text 'Expert' and 'Need' in the categories list are highlighted with red and blue boxes respectively, matching the text in the list above. The 'Add to Favorites' button is also highlighted with a blue box.

# Categories

## Academic/Research Support

A service available to UM researchers, faculty, or students. For example, tutoring, grant reviews, or writing consultation.

Edit Category

Resources

## Animal Model

A collection of living, non-human animals for research and investigations of human disease.

Edit Category

Resources

## Collection/Repository

A physical or virtual collection of specimens, artifacts, data, etc. . For example, the Blues Archive, or the Pullen Herbarium.

Edit Category

Resources

## Community/Group

A formal or informal group of people organized for a common purpose. For example: the STEM Living Learning Community, the Quantum Chemistry Research Group, or the UM Climate Change Study Group. [NOTE: Names of individuals should NOT appear in the resource name, but may appear in the description.]

Edit Category

Resources

~24 categories are defined in R2D1. Contact ORSP to suggest categories be added or merged.

# Categories (continued)

## Course

[Edit Category](#)

An academic course of interest beyond the offering department, such as a course offered for credit towards more than one program (such as one of the CME courses taken by both accounting and Mech Engr. students), a service course offered by one department for programs outside that department (e.g, Programming for Engineers taught in the CIS dept.), or one of some particular application interest (e.g., energy).

[Resources](#)

## Entity

[Edit Category](#)

This is a category of resources from SAP. Will probably not be used to create resources with this tool.

[Resources](#)

## Expert

[Edit Category](#)

A faculty, staff member, or even a student, who has demonstrable competence or expertise in an area of potential interest or benefit to a larger community. For example, peer-reviewed publications in one or more scientific (sub)disciplines; fluency in a foreign language; mastery of a musical instrument; possession of an amateur radio license; etc. Each person should have a maximum of one Expert listing, which can include several "expertise" areas in the same description field.

[Resources](#)

## Facility or Laboratory

[Edit Category](#)

A Facility or Laboratory is a physical space, on the scale of a room, but smaller than a building, that has a designated purpose. Laboratories should not be named after individual faculty members who control them.

[Resources](#)

# Categories (continued)

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## Funding Opportunity

[Edit Category](#)

An internal or external program of funding for projects, especially one of particular institution-level interest, including recurring Limited Submissions. For example, externally, the NSF IGERT program, the NASA EPSCoR Program, or the NIH High End Instrumentation program. Internally, the ORSP Faculty Travel Grants Program.

[Resources](#)

## Instrumentation

[Edit Category](#)

A sophisticated device, apparatus, or piece of equipment used for conducting science. For example, mass spectrometers, microscopes, telescopes, and vibrometers. Could also refer to a virtual instrument (such as a database).

[Resources](#)

## Internship or Fellowship

[Edit Category](#)

Summer or longer opportunity for students to gain real-world experiences for pay.

[Resources](#)

## Other IT Service

[Edit Category](#)

A computing service or product that is NOT provided or mediated by the UM Office of Information Technology (OIT), for instance a departmentally maintained Web application, a departmental software license, or a third party cloud service whose contract is not managed by OIT.

[Resources](#)

# Categories (continued)

## Other Organized Research Unit (ORU)

[Edit Category](#)

An other ORU is an institutionally recognized organization that provides interdisciplinary or inter-institutional research or support infrastructure for a given purpose, but that is not listed as an SAP Organization. For example, the Mississippi Research Consortium (MRC) or the Gulf of Mexico Hydrates Research Consortium.

[Resources](#)

## Other Program

[Edit Category](#)

An ongoing, organized activity that someone is in charge of, and that doesn't fall within another category or Origin type. A program might spawn a series of projects.

[Resources](#)

## Outreach & Public Engagement

[Edit Category](#)

A means or opportunity for engaging or educating constituents outside of UM, such as K-12 teachers and students; families; specific professional organizations; and the general public.

[Resources](#)

## Professional Service

[Edit Category](#)

A service that is available and advertised for a regular fee. For example, photography services, or lab sample analyses.

[Resources](#)

## Project

[Edit Category](#)

An activity with a specific purpose, a begin date, and an ending. Could be an externally sponsored program project, but doesn't have to be.

# Categories (continued)

## Shop

For example, machine shops, electrical shops, sign shops, paint shops, etc.

Edit Category

Resources

## Stockroom

Storage and stock rooms, especially those housing materials used for research.

Edit Category

Resources

## Training & Professional Development

An extracurricular (not-for-university-credit) training or professional development opportunity. For example, the MCSR Computational Chemistry Camp; HR's Training on Demand; HR's STEPS Seminars; and the Library's Plagiarism Video.

Edit Category

Resources

## Undergraduate Research Opportunity

A program, lab, or opportunity for undergraduate students to conduct research under the supervision of a faculty/researcher. For example, the Ole Miss Physical Chemistry Research Program.

Edit Category

Resources

## Visiting Scholar

Edit Category

Resources

# Categories: **NEED** is a new category in R2D1

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## Need

Edit Category

This category is for needs or gaps in capabilities, rather than actual resources we have. When using this category, only describe what we DO NOT CURRENTLY HAVE. "Need" is a secondary category associated with all Need Entries. The Resource Entry name should start with "Need for..." e.g., "Need for a Shared Instrumentation Facility"

Resources

# Applications

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An Application is a **societal problem, challenge, or interest area** to which a resource may be applied.

- **Each Entry** may be associated with **zero to many Applications**
- Associating an Entry with an Application allows:
  - ORSP and other central entities to quickly identify all resources/capabilities associated with an interest area
  - UM researches to find and collaborate with one another to address interdisciplinary challenges, organize around problem based funding opportunities
  - Resources to be listed once, but described in customized, institutionally vetted/standardized ways to diverse stakeholders (economic developers, media, etc.)

# Applications

Application ▼ Category ▼ Search Resources ▾

An Application refers to more general societal problem, challenge, or interest area to which a resource might be applied. [...]

Advanced Manufacturing	Leadership
Advanced Networking	Legal/Regulatory
Aerospace	Materials
Agribusiness	Media
Automotive	Mental Health
Cancer	Microscopy
Child Welfare	Mississippi Delta
Childhood Nutrition	Molecular Biology
Creative Economy	National Intelligence
Defense and Security	Obesity
Diabetes	Ocean Science
Digital Humanities	Outreach and Public Engagement
Drug Discovery	Poverty
Economic or Community Development	Race and Ethnicity
Energy Exploration and Development	Renewable Energy (DEPRECATED)
Environment	RESTORE ACT
Environmental Chemistry	Service Center
Flagship Constellation - Big Data	Shared Use Opportunity
Flagship Constellation - Brain Wellness	Ship Building
Flagship Constellation - Community Wellbeing	Space Exploration
Flagship Constellation - Disaster Resilience	Special Research Strength Claim
	STEM Education

54 Applications are currently defined in R2D1.

Including 4 UM Flagship Constellation Themes

Contact ORSP to suggest new Applications.

# Where Do Resource Directory Entries Originate?

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Some entries are manually entered by **R2D1 Users**.

- **Individual Faculty or Researchers** *who request admin accounts may enter/maintain entries for resources they control or for which they are listed as primary or secondary points of contact.*
- **Designated Representatives** *employees on behalf of their departments, schools, centers, **constellations**, or administrative offices. For example, an assistant dean may enter resources on behalf of a school, or an admin. assistant may do so for a department. These designated representatives will often be listed as points of contact.*
- **UM ORSP Staff** *ORSP Program Development Specialists may create/edit directory resource entries on behalf of, or in consultation with, their clients*

# View Resources by Category

Selected the desired Category from the Category Drop-down

The screenshot shows a web application interface with a dark blue header. On the left, there is a navigation menu with a search icon and a list of categories: 'Application', 'Category', '6', '7', '8', '9', 'A', 'B'. The 'Category' dropdown is open, displaying a list of resource categories. To the right of the header is a search bar with the text 'Search Resources' and a 'Go' button. Below the search bar, there is a list of resource cards. The first card is titled '25 inch' and the second is '400 MH'. Each card has a 'Summary' button. The category dropdown menu is open, showing a list of categories: 'Academic/Research Support', 'Building', 'Collection/Repository', 'Community/Group', 'Course', 'Decentralized IT Service', 'Entity', 'Event', 'Expert', 'Facility or Laboratory', 'Funding Opportunity', 'Instrumentation', 'Organized Research Unit (ORU)', 'Outreach', 'Professional Service', 'Program', 'Project', 'Shop', 'Stockroom', 'Training', 'Undergraduate Research Opportunity', and 'Visiting Scholar'. A tooltip is visible over the dropdown menu, stating 'A Category is a basic type of resource. [...]'.

Application ▾ Category ▾ Search Resources [ ] Go

A Category is a basic type of resource. [...]

Academic/Research Support      Instrumentation

Building      Organized Research Unit (ORU)

Collection/Repository      Outreach

Community/Group      Professional Service

Course      Program

Decentralized IT Service      Project

Entity      Shop

Event      Stockroom

Expert      Training

Facility or Laboratory      Undergraduate Research Opportunity

Funding Opportunity      Visiting Scholar

25 inch  
Category: /  
Summary

400 MH  
Category: /  
Summary

# View Resources by Category

List will only include user-originated resource entries in that category (e.g. Collection/Repository).

## Categories

### Collection/Repository

A physical or virtual collection of specimens, artifacts, data, etc. . For example, the Blues Archive, or the Pullen Herbarium.

#### Bryophyte and Lichen Collection

Category: *Collection/Repository*

Edit

Summary

Add to Favorites

#### Fundulus Breeding Colony

Category: *Collection/Repository*

Edit

Summary

Add to Favorites

#### Hydrography Dataset GIS Tool

Categories: *Collection/Repository, Other IT Service*

Edit

# View Resources by Category

Category ▼ Search Resources ↕  G

A Category is a basic type of resource. [...]

---

Academic/Research Support	Other Organized Research Unit (ORU)
Animal Model	Other Program
Collection/Repository	Outreach & Public Engagement
Community/Group	Professional Service
Course	Project
Entity	Shop
Expert	Stockroom
Facility or Laboratory	Training & Professional Development
Funding Opportunity	<a href="#">UM Flagship Constellation</a>
Instrumentation	Undergraduate Research Opportunity
Internship or Fellowship	Vehicle
Need	Visiting Scholar
Other IT Service	

# Categories

## UM Flagship Constellation

Flagship Constellations are organized, interdisciplinary, intercampus groups formed to collaborate around a particular theme or societal grand challenge. Only the UM Chancellor has the authority to designate a new constellation. As of September 2017, there are four UM Flagship Constellations: 1) Big Data 2) Community Wellbeing 3) Disaster Resilience 4) Brain Wellness

[All](#) [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [X](#) [Y](#) [Z](#)

Displaying 1-4 of 4 results.

### Filter Listing

Building

Organization

[+] Application

[-] Category Listing

UM Flagship Constellation

[+] Institution

[+] Origin Type

Apply Filter

### BIG DATA Flagship Constellation

Category: *UM Flagship Constellation*

[Summary](#)

[Add to Favorites](#)

Edit

### BRAIN WELLNESS Flagship Constellation

Category: *UM Flagship Constellation*

[Summary](#)

[Add to Favorites](#)

Edit

### COMMUNITY WELLBEING Flagship Constellation

Category: *UM Flagship Constellation*

[Summary](#)

[Add to Favorites](#)

Edit

### DISASTER RESILIENCE Flagship Constellation

Category: *UM Flagship Constellation*

Edit

[Show All Resources](#)

# View Resources by Application

---

An Application refers to more general area to which a resource might be a

- Advanced Manufacturing
- Advanced Networking
- Aerospace
- Agribusiness
- Automotive
- Cancer
- Child Welfare
- Childhood Nutrition
- Creative Economy
- Defense and Security
- Diabetes
- Digital Humanities
- Drug Discovery
- Economic or Community Development
- Energy Exploration and Development
- Environment
- Environmental Chemistry
- Flagship Constellation - Big Data

Select the desired Application from the Application Drop-Down

# View Resources by Application

## Applications

### Flagship Constellation - Big Data

Is your resource or need applicable to solving the following Grand Challenge: Effectively harness and systematically analyze large amounts of data from disparate sources for a wide variety of purposes

[All](#) [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [X](#) [Y](#) [Z](#)

Displaying 1-3 of 3 results.

#### Filter Listing

Building

Organization

#### [-] Application Listing

Flagship Constellation - Big Data

[+] Category

[+] Institution

[+] Origin Type

#### BIG DATA Flagship Constellation

Category: *UM Flagship Constellation*

[Summary](#)

[Add to Favorites](#)

[Edit](#)

#### Need for Cybersecurity Expert

Categories: *Expert, Need*

[Summary](#)

[Add to Favorites](#)

[Edit](#)

#### Philip J. Rhodes

Category: *Expert*

[Summary](#)

[Add to Favorites](#)

[Edit](#)

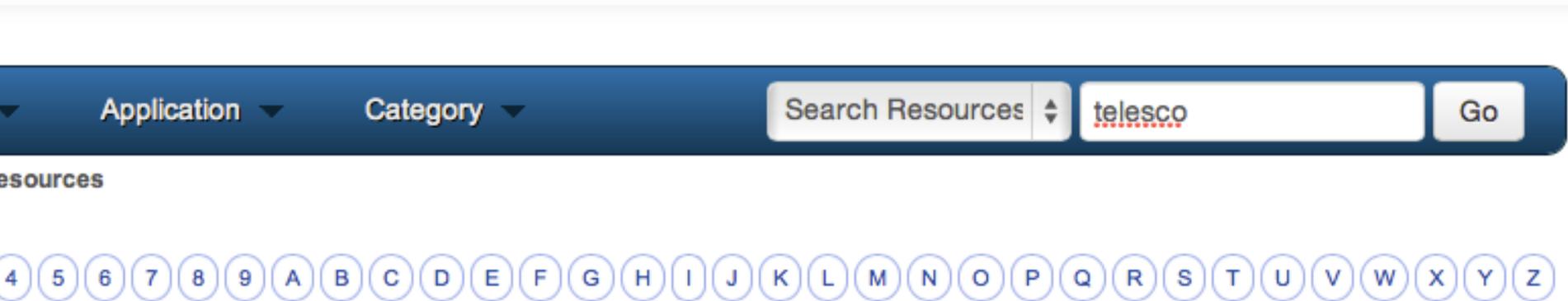
# Search Directory for Resources

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Type the search string in the text box beside the “Search Resources” drop-down, then click “Go”.

Search algorithm finds exact text matches, not concept matches.

So, to find listings with the word “telescope”, “telescopes”, or “telescopy”, just type the string with characters that are common to all three words: “telesco”



# Search Directory for Resources

---

Only resource entries that match the search criteria will be listed.

## 25 inch Dobsonian reflector telescope

Category: *Instrumentation*

Edit

Summary

Add to Favorites

## Grubb Twin Equatorial Telescope

Category: *Instrumentation*

Edit

Summary

Add to Favorites

## Portable Telescopes

Category: *Instrumentation*

Edit

Summary

Add to Favorites

## Schmidt-Cassegrian reflector telescope

Category: *Instrumentation*

Edit

Summary

Add to Favorites

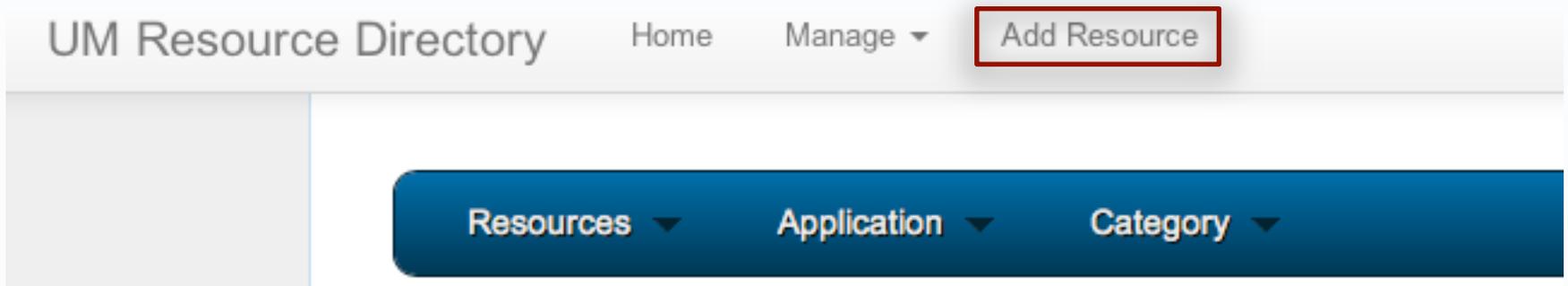
## TELESCOPES SAP Expertise

Edit

# Add a New Resource

---

Select “Add Resource”



If you don't see an “Add Resource” link near the “Home” link, contact your ORSP Research Advocate and request to have your WebId/account authorized as an R2D1 Administrators.

# Creating Resource

---

*Fields with \* are required.*

Save

**Resource Name \***

Enter a short, descriptive name, general a noun phrase.

**Description**

Description should not just be a repeat of the name, but should provide additional details, including any key words that you want to be able to search on.

**Url**

Type the Web address of the "web page of record" for this resource. For instance, a departme

**Institution \***

University of Mississippi

# Add/Edit a Resource: *Entering attributes*

## Search Organizations

### Organization

Select the department, school, center, or office that is *in charge of* this resource.

Select Organization

## Contacts

Contacts are the people who should be contacted to inquire about or request access to the resource. They will also have *edit privileges* for this resource in R2D1.

## Search for Primary

### Primary Contact

Select Primary

Primary will often be the faculty member or administrator most *directly responsible* for the resource.

## Search for Secondary

### Secondary Contact

Select Secondary

Secondary will often be a staff member or administrative support person who has been *authorized and designated to edit resources* behalf of an entire department, center, or school.

Contacts are listed alphabetically by last name. If the contact you are looking for is not there, contact your ORSP Research Advocate and request that they be added.

# Add/Edit a Resource: *Entering attributes*

---

## Location Details

### Search Buildings

#### Building

If applicable, select the building where this resource, or the person/unit responsible for it, resides.

Select Building

#### Location within Building

Enter the floor or room number where this resource can be found, if applicable/appropriate.

#### Acknowledgements

*resource was paid for in part by a grant, donation, etc*

For example, "This instrument was made possible by a donation from John and Jane Smith"

Save

Remember to click Save.

# Add/Edit a Resource: *Selecting/editing categories*

---

**Attributes**

**Application**

**Category**

Save

**Academic/Research Support**

A service available to UM researchers, faculty, or students. For example, tutoring, grant reviews, or writing consultation.

**Collection/Repository**

A physical or virtual collection of specimens, artifacts, data, etc. . For example, the Blues Archive, or the Pullen Herbarium.

**Community/Group**

A formal or informal group of people organized for a common purpose. For example: the STEM Living Learning Community, the Research Group, or the UM Climate Change Study Group. [NOTE: Names of individuals should NOT appear in the resource description.)

**Course**

An academic course of interest beyond the offering department, such as a course offered for credit towards more than one program.

# Add a New Resource: *Selecting/editing categories*

---

**Training & Professional Development**

An extracurricular (not-for-university-credit) training or professional development opportunity. Examples include Training on Demand; HR's STEPS Seminars; and the Library's Plagiarism Video.

**Undergraduate Research Opportunity**

A program, lab, or opportunity for undergraduate students to conduct research under the Physical Chemistry Research Program.

**Visiting Scholar**

Save

Remember to click Save.

# Applications

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Applications are a way of associating resources with a variety of societal problems, challenges, or broad (interdisciplinary) interest areas they might contribute to.

Applications may be used to:

- Institutional respond to external requests about capabilities:  
Ex. “Please tell us all of UM’s capabilities related to Oil Spill research and remediation”.
- Organize institutional responses to proactive approaches to cross-cutting issues:  
Ex. Putting together a team and/or proposal to investigative innovative approaches to treating depression, cancer, obesity, etc.

# Add/Edit a Resource: *Selecting/editing applications*

## Acknowledgements

Edit Applications

### Applications

#### Advanced Manufacturing

Novel materials characterization for use in extreme work environments

#### Energy Exploration and Development

Novel thermoelectric materials with the ability to turn a temperature gradient into electrical power with no moving parts.

#### Materials

Novel materials characterization for use in extreme work environments.

#### Transportation

Edit Categories

### Categories

#### Expert

A faculty, staff member, or even a student, who has demonstrable competence or expertise in an area of potential interest or benefit to a larger community. For example, peer-reviewed publications in one or more scientific (sub)disciplines; fluency in a foreign language; mastery of a

# Edit a Resource: *Selecting applications*

Attributes

**Application**

Category

## Anechoic Jet Laboratory at NCPA

### APPLICATIONS

**Advanced  
Manufacturing**

Cancer

Creative Economy

Defense and Security

Diabetes

Disaster and  
Emergency

Drug Discovery

Economic or  
Community

Development

Energy Development

**Advanced Manufacturing** [\[back to top\]](#) [\[Save All Changes\]](#)

Assign to Resource

UNKNOWN 

**Cancer** [\[back to top\]](#) [\[Save All Changes\]](#)

Assign to Resource

UNKNOWN 

# Edit a Resource: *Selecting applications*

---

## Defense and Security [\[back to top\]](#) [\[Save All Changes\]](#)

### Assign to Resource

### Application Suggested Description

The anechoic jet laboratory at NCPA can be used to evaluate of temperature effects on supersonic jets including military jets, and for designing and machining better nozzles for jet engines. Can also be sued for characterizing jet noise and thereby informing the design of military jets that are less noisy. This laboratory can also be used to measure the aerodynamic properties of tiny model projectiles in order to inform the modeling and design of more aerodynamic military missiles.

# Edit a Resources: *Selecting applications: saving*

---

## Renewable Energy [\[back to top\]](#) [Save All Changes]

### Assign to Resource

### Application Suggested Description

The anechoic jet laboratory at NCPA can be used to inform the creation of more aerodynamic and there for more energy-efficient jets and missiles that.

# Applications

---

Applications should be chosen thoughtfully and descriptions composed using language that will be understandable by the target audience/community.

For Expert entries, you might want to list a few recent publications/products relevant to the Application .

Includes the 4 UM Flagship Constellations

Includes 7 Target Industries of the Mississippi Development Authority (MDA)

- Advanced Manufacturing
- Aerospace
- Agribusiness
- Automotive
- Energy
- Healthcare
- Shipbuilding

# Applications example

---

## Flagship Constellation - Disaster Resilience [\[back to top\]](#)

[\[Save All Changes\]](#)

Is your resource or need applicable to solving the following Grand Challenge:: Mitigate the impact of disasters on individuals and communities

**Assign to Resource**

**Application Description**

The Local Agrifood System Sustainability/Resilience Index (SRI): Constructing a data tool applied to counties in the southern United States  
John J. Green, Jim Worstell & Caroline Canarios  
Community Development Vol. 48 , Iss. 5,2017  
DOI: 10.1080/15575330.2017.1370001

## Resource Name

# Schulenberg, Stefan E.

### Description

AREA OF EXPERTISE: DISASTER MENTAL HEALTH FORENSIC PSYCHOLOGY MEANING/PURPOSE IN LIFE POSITIVE PSYCHOLOGY POSTTRAUMATIC STRESS DISORDER PSYCHOLOGICAL ASSESSMENTS AND INTERVENTIONS RESILIENCE AND POSTTRAUMATIC GROWTH

<b>Institution Name</b>	<b>Organization Name</b>	<b>Last Update</b>
University of Mississippi	PSYCHOLOGY	10/11/2017
<b>Building Name</b>	<b>Contacts</b>	
KINARD HALL	Primary: <a href="#">SCHULENBERG, STEFAN</a>	
<b>Location within Building</b>	Secondary:	
203		

### Urls

<http://www.olemiss.edu/people/sschulen>

## Acknowledgements

Edit Applications

## Applications

### Flagship Constellation - Disaster Resilience

Disaster Mental Health is one of Schulenberg's specialities. Schulenberg has 16 years of training and experience working within the disaster mental health field. He moved to Mississippi in 2002, and when Hurricane Katrina hit three years later, Schulenberg was part of a multidisciplinary group that collected data on the coast on how people were handling the trauma. Schulenberg's team was again part of mental health efforts on the coast after the BP Deepwater Horizon disaster of 2010. Schulenberg is a member of the Mississippi Disaster Response Network, and is Red Cross certified. He teaches courses for the American Red Cross program and also works with the organization for

# What Next? Use for Individuals or Constellations

---

Look for resources from your area. If they are not there, create them or contact ORSP. If they are wrong, fix them.

Designate one or more R2D1 Editors for your Constellation.

E-mail Jason Hale ([jghale@olemiss.edu](mailto:jghale@olemiss.edu)) to:

- Report bugs
- Request enhancements
- Ask questions

# Questions?

**Extra Slides...used in  
longer R2D1 workshop**

# Example of Using R2D1

---

## WATERLESS FRACKING

GE wants to explore how to use economically use CO<sub>2</sub> (or propane) instead of water for fracking

- collect CO<sub>2</sub> at the wellhead, recycle it, frack again, and repeat
- A key challenge will be to help the CO<sub>2</sub> carry proppant, a type of sand that holds open the cracks in rock so oil and natural gas can escape, much like water does in current methods.

## GAS TURBINE EFFICIENCY

- GE also wants to boost the efficiency of its natural gas-powered turbines to 65 percent from today's 62 percent.
- The company believes its existing research into jet engine efficiency could help significantly reach this goal
- The company plans to study how to make wind turbine blades cheaper and more efficient through the use of different composite materials

# View Resources by Origin Type

## Filter Listing

Building

Organization

[+] Application

[+] Category

[+] Institution

[-] Origin Type

- SAP Building
- SAP Committee
- SAP Entity
- SAP Expertise
- UM IT Service
- SAP Organization
- Directory User

Apply Filter

Find the Filter Listing section on the left.

Click the + beside Origin Type to see choices.

Select the Origin Type(s) to include in list.

Select Apply Filter.

# View Resources by Origin Type

---

Only resource entries with the selected Origin will be listed.

Displaying 1-10 of 168 results.

## Academic Council Workflow **UM It Service**

[Summary](#)

[Add to Favorites](#)

## Academic Discipline **UM It Service**

[Summary](#)

[Add to Favorites](#)

## Academic Programs and Catalog **UM It Service**

[Summary](#)

[Add to Favorites](#)

## Access or Reactivate Mathematica, MATLAB, SPSS, XWin32, or ChemDraw **UM It Service**

[Summary](#)

[Add to Favorites](#)

# Exercise Using Filters to Narrow the Listing

---

Assignment: View all resource entries in the

Instrumentation category

that have an

Environmental Chemistry application

# Exercise Using Filters to Narrow the Listing

## Filter Listing

Building

Organization

[+] Institution

[+] Origin Type

Apply Filter

### [-] Application

- Advanced Manufacturing
- Aerospace
- Agribusiness
- Automotive
- Cancer
- Child Welfare
- Creative Economy
- Defense and Security
- Diabetes
- Disaster and Emergency
- Drug Discovery
- Economic or Community Development
- Energy Exploration and Development
- Environment and Sustainability
- Environmental Chemistry
- Gender

### [-] Category

- Academic/Research Support
- Animal Model
- Collection/Repository
- Community/Group
- Course
- Entity
- Expert
- Facility or Laboratory
- Funding Opportunity
- Instrumentation
- Internship or Fellowship

# Exercise Using Filters to Narrow the Listing: Results

Displaying 1-7 of 7 results.

## Filter Listing

Building

Organization

Application

- Advanced Manufacturing
- Aerospace
- Agribusiness
- Automotive
- Cancer
- Child Welfare
- Creative Economy
- Defense and Security
- Diabetes
- Disaster and Emergency
- Drug Discovery
- Economic or Community Development
- Energy Exploration and Development

### Chromatograph, Ion, Dionex DX 500

Category: *Instrumentation*

[Summary](#)

[Add to Favorites](#)

[Edit](#)

### Elemental Analysis CHN Platform (Perkin Elmer 5400)

Category: *Instrumentation*

[Summary](#)

[Add to Favorites](#)

[Edit](#)

### Inductively Coupled Plasma Mass Spectrometer (ICP-MS), Thermo Fisher Element-XR

Category: *Instrumentation*

[Summary](#)

[Add to Favorites](#)

[Edit](#)

### Inductively Coupled Plasma Mass Spectrometer (ICP-MS), Thermo Fisher X-Series 2

Category: *Instrumentation*

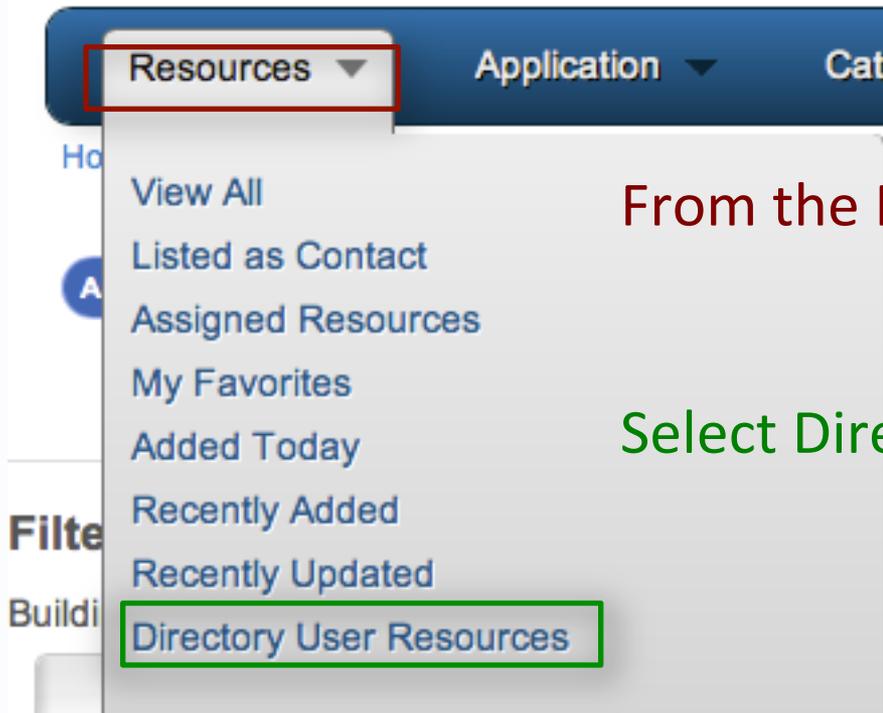
[Summary](#)

[Add to Favorites](#)

[Edit](#)

### Inductively Coupled Plasma Spectrometer Perkin Elmer

# View Directory User Originated Resources



From the Resources Drop-down

Select Directory User Resources

# View Directory User Originated Resources

---

Only resource entries that have been created by R2D1 users will be listed (not SAP-originated entries.)

Displaying 1-10 of 492 results.

## 25 inch Reflector Telescope

Category: *Instrumentation*

Edit

Summary

Add to Favorites

## 3 inch Supersonic Wind Tunnel Facility

Categories: *Facility or Laboratory, Instrumentation*

Edit

Summary

Add to Favorites

## 400 MHz Nuclear Magnetic Resonance (NMR) Spectrometers, 3 each

Category: *Instrumentation*

Edit

Summary

Remove from Favorites

# Search Directory for Resources: Exercise

---

Search for yourself in the directory.

- Click Home to view all entries.
- Type your last name in the search field.
- Click Go.

Did you find yourself? If so, edit your entry.

If not, **add a Resource Entry** for yourself with the Category **Expert**

# Z-Resources

---

Resources entries whose names begin with the letter “z” have names, descriptions, attributes, categories, or applications have been entered by an R2D1 novice and need to be “approved” by an R2D1 “expert”



Displaying 61-70 of 164 results.

## zz Test Resource 66

Edit

Summary

Add to Favorites

## zz-ConvertToExpert - Electrochemical Processing of Waste

Edit

Categories: *Collection/Repository, Expert*

Summary

Add to Favorites

## zzAmericorps VISTA program

Edit

Category: *Outreach & Public Engagement*

Summary

Add to Favorites

# Example

---

Reuters news article on 2/24 says GE plans to spend another \$10B on energy research by 2020 to advance waterless fracking and gas turbine efficiency.

## Exclusive: GE to spend another \$10 billion on energy research by 2020

BY ERNEST SCHEYDER

Mon Feb 24, 2014 6:12am EST

0 COMMENTS

 Tweet 109

 Share 47

 Share this  8

 Email  Print



General Electric employee Jim Jones assembles a GE90 engine at the GE Aviation Peebles Test Operations Facility in Peebles, Ohio, November 15, 2013.

CREDIT: REUTERS/MATT SULLIVAN

# Example #2

## US Hospitals Have Had 68 Ebola Scares, CDC Says

Aug 20, 2014, 10:23 AM ET

By SYDNEY LUPKIN via **WORLD NEWS**

 Like 346  share 215  Tweet 423  +1 9 |   71 Comments 



Medical personnel are pictured wheeling a patient in this stock image.

Sam Edwards/Getty Images

# To Go Back to Resource Listing: *Back to Search*

Resources ▾ Application ▾ Category ▾ Search Resources ▾

[← Back to search](#) | [Home](#) » Viewing Resources

---

**Resource Name**

## 3 inch Supersonic Wind Tunnel Facility

---

**Description**  
Provides full-length glass walls for excellent flow visualization and optical measurements. Utilizes a 200 hp two-stage Roots v... pull air through the test section at up to Mach 3.

<b>Institution Name</b> University of Mississippi	<b>Organization Name</b> NATIONAL CENTER FOR PHYSICAL ACOUSTICS	<b>Last Update</b> 10/06/2015
<b>Building Name</b> JAMIE L. WHITTEN NATL CTR FOR PHY ACSTS	<b>Contacts</b> Primary: <a href="#">MURRAY, NATHAN</a>	
<b>Location within Building</b> 1111	Secondary:	

**Urls**  
<http://ncpa.olemiss.edu/>

# Back to Search

Takes you back to the listing you were viewing before you viewed the full listing.

The screenshot shows a search results page with a dark blue header containing navigation menus for 'Resources', 'Application', and 'Category', and a search bar labeled 'Search Resources'. Below the header is a breadcrumb trail 'Home » Viewing Resources'. A horizontal row of circular filters contains letters from 'A' to 'W' and an 'All' filter. On the right side, it says 'Displaying 1-10 of 225'. On the left, a 'Filter Listing' sidebar includes dropdown menus for 'Building' and 'Organization', and expandable sections for 'Application', 'Category', 'Institution', and 'Origin Type'. At the bottom of the sidebar is an 'Apply Filter' button. The main content area displays three resource listings, each with a title, category, and buttons for 'Summary' and 'Add to Favorites' (or 'Remove from Favorites').

Resources ▾ Application ▾ Category ▾ Search Resources

Home » Viewing Resources

All 1 2 3 4 5 6 7 8 9 A B C D E F G H I J K L M N O P Q R S T U V W

Displaying 1-10 of 225

**Filter Listing**

Building

Organization

Application

Category

Institution

Origin Type

Apply Filter

**25 inch Reflector Telescope**  
Category: *Instrumentation*  
Summary Add to Favorites

**3 inch Supersonic Wind Tunnel Facility**  
Category: *Instrumentation*  
Summary Add to Favorites

**400 MHz Nuclear Magnetic Resonance (NMR) Spectrometers, 3 each**  
Category: *Instrumentation*  
Summary Remove from Favorites

# To Start Over: *Home*

Resources ▾

Application ▾

Category ▾

Search Resources ▾

[← Back to search](#) | [Home](#) » Viewing Resources

## Resource Name

# 25 inch Dobsonian reflector telescope

### Description

a 25 inch diameter, (f/5) Obsession model Dobsonian reflector telescope

### Institution Name

University of Mississippi

### Organization Name

PHYSICS & ASTRONOMY

### Last Update

09/09/2013

### Building Name

KENNON OBSERVATORY

### Contacts

Primary: [DON SUMMERS](#)

### Location within Building

Secondary: [TIBOR TORMA](#)

### Urls

[http://www.phy.olemiss.edu/Astro/telescope\\_details.html](http://www.phy.olemiss.edu/Astro/telescope_details.html)

# Home

Forgets the listing you were looking at; takes you back to home page to view ALL RESOURCES, as if you just logged in.

The screenshot shows a web application interface. At the top, there is a dark blue navigation bar with the following elements: 'Resources' with a dropdown arrow, 'Application' with a dropdown arrow, 'Category' with a dropdown arrow, and a search box labeled 'Search Resources' with a dropdown arrow. Below the navigation bar, the breadcrumb 'Home' is highlighted with a red box, followed by 'Viewing Resources'. A horizontal menu of circular buttons contains letters from 'A' to 'W' and a blue 'All' button. On the right side of this menu, it says 'Displaying 1-10 of 225'. On the left side, there is a 'Filter Listing' section with three dropdown menus: 'Building', 'Organization', and 'Application'. Below these are four expandable filter categories: 'Application', 'Category', 'Institution', and 'Origin Type'. A blue 'Apply Filter' button is at the bottom of the filter section. The main content area displays three resource cards. The first card is titled '25 inch Reflector Telescope' with category 'Instrumentation' and buttons for 'Summary' and 'Add to Favorites'. The second card is titled '3 inch Supersonic Wind Tunnel Facility' with category 'Instrumentation' and buttons for 'Summary' and 'Add to Favorites'. The third card is titled '400 MHz Nuclear Magnetic Resonance (NMR) Spectrometers, 3 each' with category 'Instrumentation' and buttons for 'Summary' and 'Remove from Favorites'.

Resources ▾ Application ▾ Category ▾ Search Resources ▾

Home ▾ Viewing Resources

All 1 2 3 4 5 6 7 8 9 A B C D E F G H I J K L M N O P Q R S T U V W

Displaying 1-10 of 225

**Filter Listing**

Building ▾

Organization ▾

Application

Category

Institution

Origin Type

Apply Filter

**25 inch Reflector Telescope**  
Category: *Instrumentation*  
Summary Add to Favorites

**3 inch Supersonic Wind Tunnel Facility**  
Category: *Instrumentation*  
Summary Add to Favorites

**400 MHz Nuclear Magnetic Resonance (NMR) Spectrometers, 3 each**  
Category: *Instrumentation*  
Summary Remove from Favorites

# Where Do Resource Directory Entries Originate?

---

Many entries are pre-imported from SAP.

- **Organizations** *Ex. Career Center; Center for Excellence in Teaching & Learning; Media & Public Relation; Staff Council. 289 Organizations*
- **Committees** *Ex. Accessibility; Graduate Council; Library Council; 236 Committees*
- **Buildings** *Ex. Barnard Hall; Data Center; Paris-Yates Chapel. 203 Buildings*
- **UM IT Services** *Ex. Analytics Reporting; Anti-Virus Software; Course Registration; myOleMiss; SPSS; Supercomputer Accounts; 168 Services.*
- **Other Entities** *Ex. Allies; Elsie M. Hood Award; Green Initiative. 357 entities.*

R2D1 administrative users may assign categories, applications, and other attributes to SAP-originated entries.

# Origin Type: SAP

## Filter Listing

Building

Organization

[+] Application

[+] Category

[+] Institution

[-] Origin Type

- SAP Building
- SAP Committee
- SAP Entity
- ~~SAP Expertise~~
- UM IT Service
- SAP Organization
- Directory User

Apply Filter

ACADEMIC COMMON MARKET SAP Entity

Summary Add to Favorites

~~ACADEMIC COMPUTING SAP Expertise~~

~~Summary Add to Favorites~~

ACADEMIC COMPUTING SAP Organization

Summary Add to Favorites

Academic Council Workflow UM It Service

Summary Add to Favorites

ACADEMIC DISCIPLINE SAP Committee

Summary Add to Favorites

ACCELERATOR SAP Building

Summary Add to Favorites

# Origin Type: Directory User

## Filter Listing

Building

Organization

[+] Application

[+] Category

[+] Institution

[-] Origin Type

- SAP Building
- SAP Committee
- SAP Entity
- ~~SAP Expertise~~
- UM IT Service
- SAP Organization
- Directory User

Apply Filter

### Brookfield Viscometer

Category: *Instrumentation*

Summary

Add to Favorites

### Bryophyte and Lichen Collection

Category: *Collection/Repository*

Summary

Add to Favorites

### Carol Britson

Category: *Expert*

Summary

Add to Favorites

# Edit an Existing Resource

Search to find the resource in the listing and click “Edit”

The screenshot shows a web interface for viewing resources. At the top, there is a navigation bar with dropdown menus for 'Resources', 'Application', and 'Category'. A search bar labeled 'Search Resources' contains the text 'Gladden', and a 'Go' button is to its right. Below the search bar, the breadcrumb 'Home » Viewing Resources' is visible. A horizontal menu of circular buttons contains letters from 'A' to 'Z', with 'All' selected. On the right side, it says 'Displaying 1-4 of 4 results'. On the left, a 'Filter Listing' section includes dropdown menus for 'Building' and 'Organization', and expandable sections for 'Application', 'Category', 'Institution', and 'Origin Type'. The main content area displays three resource cards. The first card is for 'Joseph Gladden (Josh)', with category 'Expert', and includes buttons for 'Summary' and 'Add to Favorites'. The second card is for 'National Spectrum Consortium (NSC)', with category 'Other Organized Research Unit (ORU)', and includes buttons for 'Summary' and 'Add to Favorites'. The third card is for 'Physical Acoustics Group', with category 'Community/Group', and includes buttons for 'Summary' and 'Add to Favorites'. Each card has an 'Edit' button in the top right corner.

Resources ▾ Application ▾ Category ▾ Search Resources ▾ Gladden Go

Home » Viewing Resources

All 1 2 3 4 5 6 7 8 9 A B C D E F G H I J K L M N O P Q R S T U V W X Y

Displaying 1-4 of 4 results

**Filter Listing**

Building

Organization

[+] Application

[+] Category

[+] Institution

[+] Origin Type

Apply Filter

**Joseph Gladden (Josh)** [Edit](#)  
Category: *Expert*  
[Summary](#) [Add to Favorites](#)

**National Spectrum Consortium (NSC)** [Edit](#)  
Category: *Other Organized Research Unit (ORU)*  
[Summary](#) [Add to Favorites](#)

**Physical Acoustics Group** [Edit](#)  
Category: *Community/Group*  
[Summary](#) [Add to Favorites](#)

# Edit a Resource

Attributes

Application

Category

History

Search Hits

Change Status

## Joseph Gladden (Josh)

Fields with \* are required.

Save

Resource Name \*

Joseph Gladden (Josh)

Description

Associate Professor of Physics, Director of the National Center for Physical Acoustics, Interim Associate Vice Chancellor for Research and Sponsored Programs, & Materials Physics Group Leader at NCPA. Dr. Gladden is an expert in acoustic methods to answer fundamental materials physics questions. His research projects have focused on mechanical properties in extreme environments such as high temperatures and pressures using resonant ultrasound spectroscopy. Recent project include verification of a theoretical prediction for metallic hydride systems and critical phenomena in novel thermoelectric such as silicon germanium, lanthanum telluride, and strontium titanate, as well as development of