UNCW Research and Innovation Quarterly Progress Meeting

Stuart R. Borrett, Associate Provost for Research and Innovation

January 20, 2022
Research and Innovation Service Team (RIST)

Mission

Stimulate and support high-impact research, innovation, and economic development that solves problems critical to North Carolina and the world.

Administrative Units

- Sponsored Programs
- Research Integrity Office
- Office Innovation Commercialization

Centers, Institutes, Programs

- Center for Innovation and Entrepreneurship
- I3S
- MARBIONC

http://uncw.edu/research
Road Map

Purpose

- Regular update on research & innovation activity
- Review efforts to stimulate and support research

Agenda

1. Indicators
2. Improvements & Updates
3. Research Stories

National Drug Court Resource Center, Dr. Lanier & Dr. DeVall

Recording in Progress
## Indicators

Characterize research and innovation enterprise

### Fiscal Year - 2022

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<td>Q4</td>
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**Sponsored Programs**

Year-to-Date Comparison (Q2)

**Proposals**
- (millions)
  - 2021: $25.1
  - 2022: $27
  - Increase: $2.0 (8%)

**Awards**
- (millions)
  - 2021: $7.8
  - 2022: $6.6
  - Decrease: $1.2 (15%)

**F&A Recovered**
- 2021: $658,376
- 2022: $743,171
  - Increase: $84,795 (13%)

Budgeted: $1.3 M

- **FY22 YTD** – Proposals are up; new awards are down
- **FY21** was a strong year; largest proposals & awards in ~6 years
Sponsored Programs: Selected Examples

Proposals

- Identifying the role of innate immunity and ECM remodeling during whole body regeneration
  
  Warner, Jacob
  
  $1.84 M, NIH

  (USAID) Mission Pakistan Improving Girls' Education Activity (IGEA).
  
  Boersma, J.; Moody, A.; Reid-Griffin, A.; Barreto, D.; Clark, H.; DeVita, J.; Ricanek, K.; Sterrett, W.;
  
  $1.1 M, USAID

Assessing the value of supplemental feeding alternatives and soil irrigation on northern bobwhite (*Colinus virginianus*) productivity in southeastern North Carolina.

  McNeil, Darin
  
  $878,025, Orton Family Foundation

Awards

- Comparative Population Genetics of Small Mammals Restricted to the Endangered Spruce-Fir Ecosystem of the Southern Appalachians of North Carolina
  
  Arbogast, B.; Kamel, S.
  
  $235,400, NC Wildlife Resources Commission

- Enabling accurate field-based testing for shellfish farmers with optimized toxin extraction and stable standards
  
  McCall, J.
  
  $148,759, Mote Marine Lab and Aquarium
Research Integrity

Year-to-Date Comparison (Q2)

Human Subjects
(IRB)

<table>
<thead>
<tr>
<th>Year</th>
<th>2021</th>
<th>2022</th>
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<tr>
<td></td>
<td>207</td>
<td>239</td>
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Animal Care
(IACUC)

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<th>Year</th>
<th>2021</th>
<th>2022</th>
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<td>40</td>
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Export Controls

<table>
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<th>Year</th>
<th>2021</th>
<th>2022</th>
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<td>44</td>
<td>101</td>
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- Activity growth from last fiscal year; leading indicators
- Annual **Conflicts of Interest**: 1266 Disclosures (84%)
Innovation & Economic Development

Year-to-Date Comparison (Q2)

Disclosures

License Revenue

Patents

Start-Ups

Mentees

- 17 events
- 750 Attendees
- 27,000 people reached

Commercial Tenants

MDG, LLC Revenue

Variable

Growth

Filed

Issued

0 1 2
2021 2022

$- $10,000
$20,000 $30,000 $40,000

2021 2022

0 1 2
2021 2022

0 1
2021 2022

2021 2022

2021 2022
Funding fuels **knowledge discovery**, reported in publications

- No existing comprehensive database to identify UNCW publications
- Web of Science search for UNCW affiliated publications – **101 articles** - Oct 2021-Dec 2021
- Thanks to **Librarians** who continue to recognize this success

**Selected Examples**

Neumeyer, X. et al. *Overcoming Barriers to Technology Adoption When Fostering Entrepreneurship Among the Poor: The Role of Technology and Digital Literacy.* IEEE Transactions Eng. Manage 2021:605-1618


A learning organization is continually making...

Improvements & Updates
Replacing RAMSeS (and much more) ... improved support for researchers

**Multiple Support Modules**

- **Finding Funding (SPIN)** – NOV.
- **Proposal Development** - Spring
- **Award Management** – Fall
- **Conflicts of Interest** – NOV.
- **IRB** – Spring/Summer
- **IACUC** – next year
Thank you to team members who have recently left UNCW

- Ami Evans (RIO)
- Marc Maus (SPARC) 53+ years of service!
- Kimberly McCoy (SPARC)
- Chloe Newsome (CIE)

Welcome to new team members

- Ronda Farrell (SPARC)
- Melissa Green (RIO)
Updated University Costs: **Fringe and Travel**

NC Office of State Budget and Management (OSMB) Updates

**Fringe**

<table>
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<tr>
<th>Benefit Category</th>
<th>FY 2021-22 (Effective Jan. 2022)</th>
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<tr>
<td>918100 - Social Security</td>
<td>7.65%</td>
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<tr>
<td>918200 - State Retirement (TSERS)</td>
<td>24.10%</td>
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<tr>
<td>918300 - Law Enforcement Retirement (LEO)</td>
<td>29.10%</td>
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<tr>
<td>918400 - Optional Retirement Program (ORP)</td>
<td>12.83%</td>
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<tr>
<td>918600 - Medical Insurance (per 1.00 FTE)</td>
<td>$7,019</td>
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**Travel Rates**

2022 business standard rate for the use of a vehicle has increased from .56/mile to **.585/mile**

University is updating its guidance related to these business expenses
a set of **strategic, catalytic, and capacity-building activities** that advance research competitiveness

Increasing *research development* services is a critical RIST strategy
Overview of Research Development

• Professional Development Series (Started Fall 2021)
  • Next Up: Feb 1 – Intellectual Property 101

• Grant Writing Workshops

• Research Collider Programs

  • Seed Funding
  • Proposal Review Services (started Fall 2021)
  • REACH: Expanded Proposal Development Services (started Fall 2021)

• Research Recognitions (e.g. Million Dollar Clubs)

Questions? Contact Kirsten Wisneski wisneskik@uncw.edu

https://uncw.edu/research/professional-development-series.html
RIST Seed Funding

Interdisciplinary Research Seminar Series
Build interdisciplinary research capacity

Translational Research Grants
Track 1. New Invention.
Stimulate commercially-focused research and creative activity

Track 2. Blue Economy
Stimulate translational research to build the blue economy

Complimentary Campus Programs
- SURCA: Support of Undergraduate Research and Creativity Awards
- Strategic Initiatives
- Pedagogy Initiatives

Grant Proposal Review Service

Review & Edit to Improve Competitiveness
• Margin comments on the draft narrative
• Outline high-level recommendations
• Revision of narrative content for clarity, style, and presentation
• Editing of proposal content for punctuation and grammar
• A debrief teleconference call with Grants Consultant

Limited Capacity
• Project budget $100k+
• Preference for new grant writers
• Preference for resubmission
• Draft project narrative must be complete 4 weeks prior to sponsor deadline.

See Research website for application link to request this service.

Not content experts, but expert grantsmiths
REACH: Expanded Proposal Development Services

Purpose
Encourage and support faculty development of larger and more complex proposals

Service
Enhanced pre-submission support including
- Finding funding
- Collaborator cultivation
- Proposal development management (e.g., logistics, supporting docs, timeline, checklist)
- Review & copyediting

Eligibility
- Apply for support 6-months before submission deadline
- Project budget $150,000/yr, and
- Either
  -Researchers from two or more departments
  -Two or more subawards (external collaborators)

Complete the REACH application at uncw.edu/research/rd.html#REACH
Research Stories

Dr. Christina Lanier and Dr. Kristen Devall
Dept. Sociology and Criminology
Co-Directors of the National Drug Court Resource Center

National Drug Court Resource Center
Summary
The purpose of the university is **knowledge**

Knowledge **Production**
(Research)

Knowledge **Transfer**
(Education)

Coupling the *education* and *research* missions strengthens both
Summary

- **Indicators** show robust research and innovation activity with modest increases
  - Need to monitor new award success

- **Improving** support for research & innovation
  - RAMSeS → OSPREY research administration software
  - Enhanced Research Development support
  - Team dynamics

**Thank you!**

What will you discover next?
What will you transform next through your research efforts?