



Research Development Office (RDO)

RDO is one of several units within the [Office of Research and Innovation \(ORI\)](#). We:

- > Stimulate interdisciplinary research and provide a foundation for sustainable research growth
- > Develop strategies to pursue large-scale research projects
- > Announce intramural and extramural funding opportunities, manage limited submission competitions and ORI's internal seed-funding programs
- > Manage University Shared Core Research Facilities and improve NC State's research infrastructure
- > Provide administrative oversight of Centers, Institutes and industrial consortia

Proposal Development Unit (PDU)

The PDU provides pre-award support for teams of NC State faculty developing large-scale (**+\$1M**) interdisciplinary research proposals.

Projects typically involve multiple departments and colleges on campus, as well as partner institutions from across the nation.

PDU services include:

- > Consultation
- > Planning/facilitation
- > Budgeting
- > Writing/editing/formatting
- > Graphics
- > Internal review coordination
- > Training
- > Site visit assistance

Visit the [PDU website](#) to:

- > Submit a PDU service request
- > Access proposal development resources
- > Learn about NIH and other federal agencies
- > Learn about upcoming trainings/workshops hosted by the PDU

Funding and Limited Submission Opportunities

RDO assists faculty in identifying funding for individual, collaborative, and interdisciplinary research projects.

Faculty should subscribe to [RDO's funding newsletter](#) to receive announcements of limited submission opportunities of interest to NC State faculty, internal seed-funding programs, and other programs of interest.

Limited Submissions

RDO strives to identify and announce all [limited submission opportunities](#) of interest to the NC State research community, and manages the internal submission and review process.

- > Faculty should **not** begin working on a limited submission proposal until approval is received from RDO.
- > Should faculty identify a limited submission opportunity that is not posted on the [limited submission website](#), please notify RDO and the appropriate college research office (CRO) immediately.

Internal Funding Programs

RDO, often in partnership with other stakeholders, offers [opportunities](#) for research/scholarship seed funding, research equipment and other research infrastructure. Programs offered on an annual basis include:

- > [Non-laboratory Scholarship/Research Support Program \(NSRP\)](#)
- > [Laboratory Research Equipment Program \(LREP\)](#)
- > [Research & Innovation Seed Funding \(RISF\)](#)
- > [Faculty Research & Professional Development \(FRPD\)](#)
- > [METRIC Pilot Project Program \(MPPP\)](#)

Centers and Institutes

NC State's [Centers and Institutes](#) are platforms for interdisciplinary collaboration, education and discovery. Many of these UNC System-recognized units receive significant federal funding from NIH, NSF, NOAA, NASA, USDA and DOI.

Key Facts

- > NC State is home to 41 Centers and Institutes, including 4 designated as multi-campus units within the UNC system
- > NC State is the Lead Institution for 1 and a Research Site for 4 NSF-supported Industry/University Cooperative Research Centers (I/UCRCs).
- > NC State is the Lead Institution for 2 and a Partner in 1 Engineering Research Center (ERC)
- > NC State leads or is a member of 8 Manufacturing Institutes within the National Network operated by the interagency Advanced Manufacturing National Program Office (AMNPO)
- > NC State is home to 2 new NSF supported special units: Artificial Intelligence (AI) Center and Center for Science and Technology for Phosphorus Sustainability (STEPS)
- > 10 of NC State's Centers and Institutes and 9 industrial consortia receive continuing financial support via industry memberships from more than 325 U.S. and foreign companies
- > More than 1000 faculty, 641 staff and 1,391 graduate students are affiliated with NC State Centers and Institutes
- > Number of publications reached 2,300 in FY 2023.

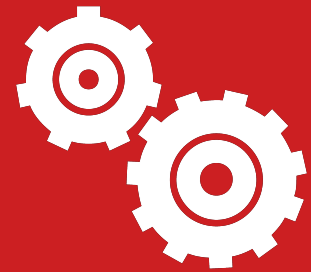
RDO Key Functions

- > Disseminate information and latest news about NC State Centers and Institutes
- > Promote interdisciplinary contacts and cooperation
- > Facilitate planning for and establishment of new Centers, Institutes and industrial consortia to support research
- > Assist with applications for federal center grants as well as post-award management
- > Help navigate various requirements for performing multidisciplinary research

Shared Core Research Facilities

RDO oversees 6 [Shared Core Facilities](#):

- > [Analytical Instrumentation Facility \(AIF\)](#)
- > [Cellular and Molecular Imaging Facility \(CMIF\)](#)
- > [Genomic Sciences Laboratory \(GSL\)](#)
- > [High Performance Computing \(HPC\)](#)
- > [Molecular Education, Technology and Research Innovation Center \(METRIC\)](#)
- > [NC State Nanofabrication Facility \(NNF\)](#)



These facilities house state of the art instruments and are staffed by scientists offering training, specialized services, as well as consultations.

RDO works with partners across campus to strengthen research and enhance competitiveness by providing access to Core instrumentation and services.

FY 2023 Achievements

- > PDU supported the efforts of **1,775 faculty on 85 proposals** and related training, with **\$114.8M awarded** to date and another **\$101.1M pending**.
- > RDO and the Kenan Institute for Engineering, Technology and Science invested significantly more funding (**\$800,000**) in the RISF internal funding program to support **interdisciplinary research**. In FY23, 31 proposals were submitted to the RISF program and 12 awards were made, totaling \$290,968 with an additional \$89,000 in matching funds from various colleges.
- > RDO announced **71 limited submission opportunities** and administered **23 internal competitions**, with **85 proposals submitted** to sponsors.
- > In NC States 41 Centers and Institutes, five periodic (five-year) comprehensive reviews were conducted, 22 new and 52 existing external Center/Institute members provided a total of \$4M for research, and RDO processed internal research awards for 140 Core research projects (\$1.8M) as well as 85 sub-awards (\$7.4M) to University partners.
- > In FY23 new instruments were installed in satellite laboratories of three Core Facilities (CMIF, METRIC and GSL) in the Plant Science Building, and new Core personnel were hired to operate these instruments and provide research consultation services.
- > In FY23, a total of 53 proposals were submitted to the Faculty Research and Professional Development (FRPD) program from NC State colleges and 45 awards were made totaling \$296,299 (ORI contributed \$116,774 and the colleges contributed \$179,525)
- > Major new research and workforce development awards to NC State in FY23 that were facilitated by the Proposal Development Unit (PDU) include USDA-sponsored support for a Juntos National Consortium (\$7.8M), an AFOSR-funded MURI on quantum science (\$7.5M), a DOE-funded award focused on carbon-less electrification of industry (\$7.8M), renewal of DOE funded PowerAmerica Institute (\$64M), renewal of the NIH-funded CTSA (NC TraCS) led by UNC-Chapel Hill (\$70M) and two NSF Major Research Instrumentation awards.

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