Welcome to the Research and Creative Activity Update!
The Office of Research and Creative Activity wants to make sure you are provided with up-to-date information pertaining to research and scholarly activities and opportunities. Thus, to share information quickly rather than through multiple emails, we will continue to provide weekly updates for researchers, scholars and staff to keep up-to-date on grant program changes, deadlines, notices and training, with links to expand the information you may be interested in.

Thank you for your contributions to research and creative activity at NDSU.

These weekly email updates are archived on the [RCA Website](#).

**EVENTS**

- [Register Now for Upcoming Gear up for Grants Seminars](#)

**FUNDING OPPORTUNITIES**

- [Notification Due Dates for Upcoming Limited Submission Programs](#)

**NOTICES**

- [Enablement – Another Requirement to Patentability](#)
- [New Issue of Research Development & Grant Writing News Now Available](#)
- [NDSU Research Foundation FY16 Annual Report](#)
- [Research Tools for Reliability Testing](#)

**Register Now for Upcoming Gear up for Grants Seminars**
Mark your calendars for these upcoming Gear up for Grants Seminars:

- **Research Results: Beyond Publishing – Intellectual Property, Licensing to Companies, Starting a Company**
  *Wednesday, December 14, 2016 | 3-4:30pm | Memorial Union Hidatsa Room*
  [Register Now](#)

- **Best Practices and Tips for Creating a Successful Proposal Budget**
  *Thursday, January 19, 2017 | 3-4:30pm | Memorial Union Hidatsa Room*
  Save the Date!

For more information, visit the [Research and Creative Activity Calendar](#).
Notification Due Dates for Upcoming Limited Submission Programs

Limited submission grant programs are those that indicate a limit on the number of proposals that may be submitted by an institution for a particular deadline. A selection process becomes necessary if more applicants express interest in applying than NDSU is allowed to submit to the grant program.

Notification emails are due to NDSU.ResearchDev@ndsu.edu for the following upcoming Limited Submission programs:

- **NIH Research Education: Initiative for Maximizing Student Development (IMSD) Program (R25)** – Notification due 11/21/2016. For more information on the program, read the program guidelines online (PAR-17-040)
- **NSF EPSCoR Track 4 – EPSCoR Research Fellows** – Notification due 12/2/2016. For more information on the program, read the program guidelines online (NSF 17-509)
  Join EPSCoR Program Officers November 29 or November 30 at 2:00 p.m. EST for an informational webinar on EPSCoR’s RII Track-4 program. WebEx login instructions can be found here.
- **NSF INCLUDES Design and Development Launch Pilots** – Notification due 12/12/2016. For more information on the program, read the program guidelines online (NSF 17-522)
- **NIH Research Initiative for Scientific Enhancement (RISE) (R25)** – Notification due 2/1/2017. For more information on the program, read the program guidelines online (PAR-16-361)

Enablement - Another Requirement to Patentability

Besides the novel, non-obvious, and utility pieces in a patent application, a patent must also provide enablement. Enablement is part of the patent transaction whereby an inventor is granted the right to exclude others from making, using, or selling an invention, and in return the inventor discloses to the public details on how to make and use the invention for its intended purpose. The teaching for making and using the invention must be specific and reproducible. There must be enough detail in the patent about the materials and methods so that one could understand the instructions and follow them to get the intended results. The instructions cannot be just a way to get the invention; there is also a requirement that “best mode” known by the inventor for achieving the invention be provided. These instructions also cannot be unreasonably vague or ambiguous. A person with “ordinary skill of art” in the field to which the invention pertains should be able to carry out the instructions successfully.

If you have questions about intellectual property or the NDSU Intellectual Property Policy, contact the Technology Transfer Office: Henry Nowak (1-8173 or henry.nowak@ndsu.edu) or Dale Zetocha (1-8931 or dale.zetocha@ndsu.edu).

New Issue of Research Development & Grant Writing News Now Available

The November issue of Research Development & Grant Writing News is now available. Use your NDSU login to access this publication.

Many topics are covered in this edition, including:
- How to go from Research Ideas to Research Dollars
- Initiative to Strengthen Agricultural Workforce
- Planning for Funding Success at NSF
- NIH: Are You on the Fence About Whether to Resubmit?
- Education Department Outlines Six Focus Areas for STEM Ed over Next Decade
- NEH Creating Humanities Communities
- Research Grant Writing Web Resources
- Information on agency research news and funding opportunities
Research Tools for Reliability Testing

The Recharge Center has several environmental chambers available for testing samples. The ESPEC TSD-100 is a two-zone chamber that provides rapid temperature cycling between -65°C and +200°C by vertical transfer of the samples between the two chambers. The ESPEC ESX-2C allows cycling between programmed set points for temperature (-70°C to +150°C) and humidity. The ESPEC EHS-211M is a Highly Accelerated Stress Test (HAST) chamber that provides control of temperature, humidity, and pressure. For more information on how these tools can help with your research, contact Fred Haring (1-5336 or frederik.haring@ndsu.edu) or visit the Research Operations website at https://www.ndsu.edu/research/research_operations/.