NDSU Advance FORWARD

Advancing Faculty
to Move NDSU Forward

Leap Research Grants

NSF ADVANCE
Institutional Transformation Program

- Funding for comprehensive and sustainable institutional transformation to increase the representation and advancement of women in academic science, technology, engineering and mathematics (STEM) careers, thereby contributing to the development of a more diverse science and engineering workforce.
Percentage of NDSU Women at Rank

**Percentage of NDSU Women at Rank**

<table>
<thead>
<tr>
<th>Year</th>
<th>% Assistant</th>
<th>% Associate</th>
<th>% Full</th>
<th>Numbers above bars indicate number of women faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>92-93</td>
<td>41</td>
<td>18</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>02-03</td>
<td>71</td>
<td>14</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>03-04</td>
<td>74</td>
<td>15</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>04-05</td>
<td>80</td>
<td>21</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>05-06</td>
<td>85</td>
<td>23</td>
<td>11</td>
<td></td>
</tr>
<tr>
<td>06-07</td>
<td>79</td>
<td>28</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>07-08</td>
<td>72</td>
<td>30</td>
<td>9</td>
<td></td>
</tr>
</tbody>
</table>

**Percentage of NDSU Women at Rank**

**2007-2008**

<table>
<thead>
<tr>
<th>Field</th>
<th>% Assistant</th>
<th>% Associate</th>
<th>% Full</th>
<th>Numbers above bars indicate number of women faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>STEM</td>
<td>32</td>
<td>8</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Non-STEM</td>
<td>40</td>
<td>22</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>All</td>
<td>72</td>
<td>30</td>
<td>9</td>
<td></td>
</tr>
</tbody>
</table>
Percentage of NDSU Women at Rank 2007-2008

- **Assistant**: 32 STEM, 40 Non-STEM, 72 All
- **Associate**: 8 STEM, 22 Non-STEM, 30 All
- **Full**: 4 STEM, 5 Non-STEM, 9 All

Numbers above bars indicate number of women faculty.

Advance FORWARD Goals

- Improve the climate across the campus
- Enhance recruitment
- Increase retention
- **Promote/advance** women associate professors and hire women at advanced rank to build a critical mass of senior women
- Open faculty leadership opportunities
Major Project Components

- **Role of critical mass in climate**
- **Professional development grant programs**
- **Course release**
- **Mentoring and reverse mentoring**
- **Women in leadership**
- **Leadership development**
- **Travel**
- **Gender and productivity**
- **Climate Research Grants**
- **Climate Research Grants**

**Key:**
- NDSU Administration
- External to NDSU

**Advancement/Leadership:**
- **Course Release Grants** – STEM
- **Leap Research Grants** – STEM
- **Leadership Development Grants** – All
- **Travel Grants** – All
- **Climate Research Grants** – All
- **Mentoring Programs** – All
Leap Research Grants

- The Leap Grant provides research grants to seed successful grant proposals.
- The goal is to help promote the advancement (tenure and promotion) of tenure-track and tenured women faculty in STEM disciplines.

Eligibility

- Open to tenure-track or tenured women faculty in STEM disciplines. See NSF list.
- Priority will be given to Assistant Professors who have received a positive third year review and Associate Professors within two years of promotion to Full Professor.
Timeline

- **Proposal deadline**: June 1, 2009
- **Award announcement**: August 2009
- **Award period**: One year, all funds must be used by August 31, 2010.

Budget

- **Budget cap**: $30,000
- **Allowable budget items**: Salary; budget fringe at NDSU level, equipment, supplies, travel, and publication costs. Direct costs only (no overhead).
Proposal Format

❖ Advance FORWARD Leap Grant cover sheet
  • Explain need for Leap funding and how it relates to your advancement and career goals at NDSU.
  • List funding agency(s) and program(s) to which you will submit a proposal. Include target date(s) for submission(s) and estimated budget amount(s).

Proposal Format

❖ Project Description – three pages
❖ Budget with justification
  • One page
  • Itemize, describe, and justify each budget item.
  • Use the NDSU budget form
❖ References cited
❖ Vita – two pages
Proposal Format

❖ Appendices
  • Examples of evaluations of progress toward promotion to associate or full professor and/or tenure such as
    Copies of annual and/or third year review reports from department and/or college PTE committees, department heads/chairs, and/or college deans.

Review Process

❖ Proposals will be reviewed by external reviewers from other universities.
❖ The final decisions for awards will be made by an internal review committee.
❖ Reviewer evaluation form is posted on the FORWARD web site.
Review Criteria

- Primary Criteria
  - Scientific and intellectual merit
  - Credentials of the PI and potential for successful promotion and/or tenure of the PI
  - Potential for enhancing grantsmanship and increasing journal publication of the PI

- Secondary Criteria
  - Soundness of the budget
  - Quality of the proposal

Obligations

- Awardees must submit manuscript(s) to peer reviewed journal(s).
- Awardees must submit a research proposal to a funding agency within 12 months of the end of Leap Grant award.
- Awardees are expected to participate in program assessment.
- All scholarship resulting from this award must acknowledge support from the NDSU ADVANCE FORWARD program sponsored by the National Science Foundation, HRD-0811239.
Some Suggestions...

- The budget justification is not clear to this reviewer. Which funds are for a capillary XYZ unit?
- Budget explanation provided insufficient detail on how $14,800 would be spent; $6,200 for operating fees and $2,400 for miscellaneous listed in the budget without explanation.
- Budget justification requires more detail than provided. For example, why $17,400 was requested for subcontracts was not explained. Similarly, $3,000 was requested for miscellaneous costs without adequate explanation.

Some Suggestions...

- Four years of funding is requested but I thought this is a 1 year RFP.
- Funding for 3-5 y requested but isn’t this a one y grant program?
- It is important to follow the RFP – funding is for one year!
Some Suggestions...

- Does not meet preferred criterion; no third year review or letter from Department Chair.
- This PI was most senior of all reviewed proposals & seems to be going up for promotion this semester, so use the seed money to help get this PI to the next level seemed a late request in her case. Seems that this PI has just about met the goals for which this ADVANCE funding is intended.

Questions?

Principal Investigator: R. Craig Schnell—Provost and Vice President of Academic Affairs
Project Co-directors: Canan Bilen-Green—Industrial and Manufacturing Engineering, Co-PI
Ann Burnett—Women's Studies, Co-PI
Elizabeth Birmingham—English, Campus Climate, Senior Investigator
Karen Froelich—Management, Marketing, and Finance, Senior Investigator
Kalpana Katti—Civil Engineering, Senior Investigator
Rhonda Magel—Statistics, Co-PI
Kevin McCaul—Science & Math, Senior Investigator
Eveadean Myers—Vice President of Equity, Diversity, and Global Outreach
Christine McGeorge—Child Development & Family Science, Senior Investigator
Bonnie Neas—Information Technology, Senior Investigator
Wendy Reed—Biology, Senior Investigator
Donald Schwert—Center for Science & Mathematics Education, Senior Investigator
Kay Sizer—Office of Research, Creative Activities & Technology Transfer
Gary Smith—Engineering & Architecture, Co-PI
Christina D. Weber—Sociology, Anthropology & Emergency Management, Senior Investigator
Charlene Wolf-Hall—Veterinary and Microbiological Sciences, Senior Investigator