NDSU Advance FORWARD: Advancing Faculty to Move NDSU Forward

Climate & Gender Research Program
Information Session
May 13, 2010

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.
Advance FORWARD Goals

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

- Implementation Group: Academic Deans, Department Chairs/Heads
- R. Craig Schnell, Provost/PI, Chair
- Commission on the Status of Women Faculty
- NDSU Advance FORWARD: Executive Directors, Project Coordinator, FORWARD Scholars, Project Staff
- Executive Steering Committee: FORWARD Team
- Internal Advisory Board
- External Advisory Board
- Campus Climate
- Advancement Leadership
- Research
- Dissemination Activities: FORWARD Team
- External Evaluator

Key:
- NDSU Administration
- External to NDSU
- FORWARD Administration

Funding Opportunities

- Course Release Grants – STEM
- Leap Research Grants – STEM
- Leadership Development Grants – All
- Travel Grants – All
- Climate and Gender Research Grants – All
- Mentoring Programs – All
Climate and Gender Research Grants

- To engage the university in research on gender, develop interdisciplinary research teams
- Demonstrate the value of research on gender and the academy.
- Typical projects funded by this program will advance understanding of gender in the academia, especially in STEM, and is expected to be separate from FORWARD related programs.

Eligibility

- Open to tenure-track or tenured faculty in STEM AND NON STEM disciplines.
  - Open to all interdisciplinary research teams composed of tenure-track or tenured faculty.
Timeline

- **Proposal deadline**: July 15, 2010
- **Award announcement**: August 2010
- **Award period**: One year, all funds must be used by August 31, 2011.

Budget

- **Budget cap**: $10,000
- **Allowable budget items**: Salary; budget fringe at NDSU level, equipment, supplies, travel, and publication costs. **Direct costs only** (no overhead).
Proposal Format

- Advance FORWARD Climate and Gender Grant cover sheet
- Project Description – Not to exceed five single-spaced pages including tables and figures. Write to the level of a wide audience of potential reviewers.
- References cited
- Vita – two pages

Proposal Format

- Budget with justification
  - One page
  - Itemize, describe, and justify each budget item.
  - Use the NDSU budget form
- List funding agency and program to which you will submit a proposal. Include target date for submission(s) and estimated budget amount.
### NDSU

#### Standard Proposal Budget

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<thead>
<tr>
<th>Salaries &amp; Wages</th>
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<tr>
<td>Full time faculty</td>
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<td>Fringe Benefits @30%</td>
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<td>Full time staff, research assoc., tech, post docs</td>
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<tr>
<td>Fringe Benefits @35%</td>
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<td>Graduate &amp; undergraduate students</td>
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<td>Fringe Benefits @2%</td>
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<td>Partial staff</td>
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<td>Fringe Benefits @10%</td>
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<tr>
<td><strong>Total Salaries &amp; Fringe Benefits</strong></td>
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<th>Operating Expense</th>
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<td>Travel - Domestic</td>
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<td>Travel - Foreign</td>
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<td>Supplies</td>
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<td>Repairs</td>
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<td>Subcontracts</td>
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<td>Rents &amp; Leases</td>
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<td>Major Equipment &gt;$5k</td>
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<td>Operating Fees &amp; Services</td>
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<td>Professional Fees &amp; Services</td>
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<tr>
<td>Miscellaneous Expense</td>
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<td><strong>Total Operating Expense</strong></td>
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<td><strong>Total Direct Costs</strong></td>
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<td><strong>Facilities &amp; Administration</strong></td>
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<tr>
<td><strong>Total Cost</strong></td>
<td>$0</td>
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### 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 forms are posted on the FORWARD web site.
Review Criteria

- Primary Criteria
  - Intellectual merit
  - Innovation and methodological rigor
  - Qualifications of the research team
  - Interdisciplinary nature of the research team
  - Potential for external funding and publications
  - Promise in leading to a positive climate

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

Obligations

- Submit manuscript to peer reviewed journal.
- Submit a research proposal to a funding agency within 12 months.
- Present findings to campus.
- Participate in program assessment.
- Acknowledge support from the NDSU ADVANCE FORWARD program sponsored by the National Science Foundation.
Current Awards...

- Assessing Toward Equity in STEM – Nathan Wood, School of Education and Erika Offerdahl, Chemistry & Molecular Biology.

Proposal Submission

- Email application materials—saved as a single pdf file – to ndsu.forward@ndsu.edu.
- A proposal will not be considered if:
  - The applicant is not eligible.
  - The research area is not clearly in climate and/or gender.
  - The applicant submits more than one application per round.
  - Instructions are not followed correctly.
Some Suggestions...

- The budget justification is not clear to this reviewer.
- The weaknesses in the proposal are the lack of detail around the research to be done and the interdisciplinary nature of the participants.
- There was no hypothesis regarding the effect of the proposed program.
- This proposal has numerous spelling and grammatical errors which would discourage most reviewers from recommending it.

Some Suggestions...

- Pose significant questions that can be investigated empirically
- Link relevant research to theory
- Use methods that permit direct investigation of the question posed
- Provide a coherent and explicit chain of reasoning
- Replicate and generalize across studies
- Disclose research to encourage professional scrutiny and critique

National Research Council report
Some Suggestions...

- External funding sources to consider:
  - National Science Foundation
    - Education and Human Resources
    - Human Resource Development
      - Research on Gender in Science and Engineering
        » Search for awards (for more information see August 24, 2009 information session slides)

Questions?

Canan Bilen-Green—Industrial & Manufacturing Engineering
Elizabeth Birmingham—English
Ann Burnett—Women and Gender Studies
Kalpana Katti—Civil Engineering
Christine McGeorge—Child Development & Family Science
Julie Nash—NDSU Advance FORWARD, Coordinator
Donald Schwert—Center for Science & Math Education