



## **Young Engineer Studies (YES) Seed Grant Funding for 2008-2009** Purdue University Department of Engineering Education

- **Submission Deadline is March 31, 2008** -

Purdue's Department of Engineering Education and the Institute for P-12 Engineering Research and Learning (INSPIRE) are sponsoring a seed grant initiative to promote research in engineering thinking in pre-K to 6<sup>th</sup> grade (P-6) learners. This initiative is made possible by a grant from the Bechtel Foundation.

***We envision innovative studies of early childhood development that document young learners' conceptions of the engineering world in formal and/or informal learning settings.***

**Proposal Requirements: A five page (max. including figures) project description (11 pt. font or larger) that includes:**

- Summary of Study
- Background and Significance of Research Questions
- Research Plan including research questions, methods and potential test beds
- Identifying specific RFPs, or other program solicitations, is strongly encouraged

**In addition, the proposal must include (not included in the five page limit):**

- Literature cited
- Budget and Budget Justification
- Bio for each PI similar to NSF's format requirements (1-2 page)
- A complete list of Current and Pending grants for each PI

**Eligibility:** Faculty and research scientists at ALL Purdue Campuses are eligible to apply for YES Seed Grant funding.

**Funding amounts will range from \$40,000-\$45,000 for one year:** We anticipate funding four small grants to help launch new research opportunities. Funding may be available for one or two larger projects in collaboration with current ENE initiatives associated with the YES Program. These grants will not be extended past the one year anniversary of the award acceptance date.

### **Expectations of Funded Proposals**

**Awardees will be expected** to submit a short mid year report, a final report, and present results at a relevant conference and on campus. Applicants are strongly encouraged to respond to an RFP or other program solicitations.

**Submission Deadline is March 31, 2008.** Electronic submissions can be sent to [yes@purdue.edu](mailto:yes@purdue.edu) or hardcopies mailed to: Young Engineer Studies Seed Grant, ENE Research Committee Chair, ARMS 1217.

**Announcement of Winners** will be May 1, 2008. The proposals will be reviewed by a panel of experts and selections will be made on projects with potential for future funding or high risk projects that identify novel and important directions in this field of study. The proposals will be judged on intellectual merit and broader impact.

**General information** is posted at <https://engineering.purdue.edu/ENE/Grants/yes> Studies could focus on a wide range of cognitive, affective, behavioral, or social, factors related to developing student's and teacher's conceptions of engineering, as well as STEM research that builds upon prior developmental studies and literacy education it relates to developing engineering thinking in P-6 learners. A related article can be found at: <https://engineering.purdue.edu/ENE/Features/QuietNoLongerBirthofaNewDiscipline>

**Documents:** Application forms and more detailed directions can be requested by emailing [yes@purdue.edu](mailto:yes@purdue.edu)