

# 2018 NSF Research Experience for Undergraduates



Indiana University-Purdue University Indianapolis (IUPUI)

To apply & learn more:  
[math.iupui.edu/reu](http://math.iupui.edu/reu)

## PROGRAM DETAILS:

Student participants will conduct applied mathematics research for 8 weeks (June 4 to July 27, 2018) at IUPUI with faculty advisors. *Apply by February 1, 2018.*

Participants in the program will receive:

- **\$4000** research stipend
- **\$400** travel expenses
- Apartment housing & meal allowance

Contact: Dr. Julia Arciero  
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## APPLIED MATH PROJECTS:

- ✓ Modeling treatment strategies for heart transplant patients (Advisor: Dr. Julia Arciero)
- ✓ Modeling cancer cell motion (Advisor: Dr. Jared Barber)
- ✓ Modeling influence of addictive drugs on the brain (Advisor: Dr. Alexey Kuznetsov)
- ✓ Computational modeling of cellular-level tissue dynamics (Advisor: Dr. Andres Tovar)
- ✓ Implementation of advanced topology optimization methods (Advisor: Dr. Andres Tovar)



**IUPUI SCHOOL OF SCIENCE**  
Department of Mathematical Sciences

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