Penn GEMS is a week-long day camp targeting middle school girls entering 7th, 8th, and 9th grade that focuses on bioengineering, nanotechnology, materials science, graphics and computing.

- The Penn GEMS Summer Camp is dedicated to providing hands-on activities to engage middle school girls in applied science, technology and engineering. Goals:
- To introduce engineering to girls through nanotechnology, materials science, bioengineering, environmental engineering, chemical engineering, robotics, graphics and computing.
- To make connections with role models and mentors that will help them to visualize themselves as engineers.
- To encourage girls to continue studying math, science and computing and to think about studying engineering in college.
- Emphasis on real-world problem solving, collaboration, teamwork and building self-efficacy.

Note: The Application Deadline is March 31, 2017. Supporting materials can be sent later but the on-line form must be completed by this time. Applications received after the deadline will be reviewed based on qualifications, and on a space-available basis. Contact Michaile Rainey at michaile@seas.upenn.edu or 215-573-6487 with questions or concerns.

PLEASE NOTE: Participants from previous GEMS camps are NOT eligible to return to the program.

### PART I: Personal Information

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<th>Field</th>
<th>Information</th>
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<tr>
<td>Last Name</td>
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<td>First Name</td>
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<td>Home Phone Number</td>
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<td>Date of Birth (e.g. 11/21/1995)</td>
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<td>Current Grade (16-17 school year)</td>
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<tr>
<td>6th Grade</td>
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<td>7th Grade</td>
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<td>8th Grade</td>
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### Racial/Ethnic Group (optional)

- [ ] White, non-Hispanic
- [ ] Hispanic
- [ ] Black, non-Hispanic
- [ ] Native American
- [ ] Asian or Pacific Islander

### Parent or Guardian Name

### Parent or Guardian Email

### Work Phone

### Have you ever participated in previous GEMS camps?
- [ ] Yes
- [ ] No

### Part II: School Information

### Name of Current School

### District/City

### What type of school do you attend?
- [ ] Public
- [ ] Parochial
- [ ] Private
- [ ] Home Schooled
- [ ] Charter

### 1) What grade level mathematics are you studying this year?
- [ ] 6th
- [ ] 7th
- [ ] 8th
- [ ] Other: [ ]
2) What grade level science are you studying this year?

- 6th
- 7th
- 8th
- Other: [ ]

3) Please tell us your last reported grades and classes. In addition, please include a copy of your most recent report card with your application materials.

<table>
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<tr>
<th>Subject</th>
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4) How do you use computers (surf the web, play games, write programs, word processing, etc.)?

5) Have you done any programming or webpage development? Have you taken a computer class?

6) Have you participated in math or science programs outside of school?

- Yes
- No

If Yes, which program?
7) Why would you like to participate in PennGEMS? Please have the student answer this question herself!

8) All Robotics track – Spend all week in the robotics lab learning about and playing with robots. Space in the robotics only track is limited. No prior robotics experience preferred. Do you want to be considered for the Robotics only track?  
○ Yes  or ○ No

9) Please tell us about yourself by answering the following questions.

- [ ] I have participated in a competition in school. Describe the competition.

- [ ] I have participated in an academic competition outside of school. Name of competition:

- [ ] Academic Awards or Honors in school:

- [ ] Academic Awards or Honors outside of school:

- [ ] Participated in other academic summer camps. Name of program:

10) Are you applying for financial aid?
11) Please add any other pertinent information.

Part III - Additional Information

T-Shirt Size:

- Youth Medium (10-12)
- Youth Large (14-16)
- Adult S
- Adult M
- Adult L
- Adult XL

Name of teacher writing a recommendation:

How did you hear about the GEMS program?

- Teacher / Guidance Counselor
- Family or Friend
- Internet Search
- Parent works at Penn
- Received a letter and brochure in the mail.
- Other:

To Complete Your Application Please Enclose the Following:

- Permission form signed by both student and parent.

One Sealed Envelope with Teacher Recommendation Information from Current Math or Science Teacher. After the teacher has completed the recommendation form, the teacher should place it in an envelope, sign the seal of the envelope, and return the sealed envelope to
the student for submission with the completed application. This form may also be emailed directly to awe@seas.upenn.edu. If emailed, it must come directly from the teacher and not from the student or parent.

- **Application Fee:** Non-refundable $25. Only US bank checks or money orders will be accepted. Do not send cash. Make checks payable to "Trustees of University of Pennsylvania" and Memo: GEMS App Fee for <student name>
- Note: A limited amount of financial assistance is available. Please fill out financial aid form and send it in with the rest of your application materials.

Send All Application Materials in **One Envelope** to: Michaile Rainey, University of Pennsylvania, 109 Towne, 220 S. 33rd St, Philadelphia, PA 19104.

All forms (Parent Permission, Teacher Recommendation, Financial Aid) are available for download on the GEMS website at www.seas.upenn.edu/awe/gems/app.html