# **Application**

# **Timeline**

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**March 19 - Applications due**

**March 30 - Applicants notified of their status**

**July 9 - August 17 - Summer workshop on UW campus, weekdays only, 9am-4pm:**

* + **Week 1 - Orientation**
  + **Week 2-5 - Lab Intensive - UW College of Engineering, Makerspace**
  + **Week 6 - NGSS engineering lesson(s) development**

**TBD - Monthly meetings (in person or virtually) October 2018-June 2019**

**K12 Engineering Scholars Program**

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|  | **Summer, 2018** |  |

**Components of the Application Materials include:**

Program overview – pages 1 & 2

Teacher application – pages 3 & 4 – can be completed in MSWord or printed and completed in pen

Principal Support Form– separate form

**Completed application materials should be sent via email or mail no later than Friday, March 19, 2018:**

Email: [Jen.Eklund@systemsbiology.org](mailto:Jen.Eklund@systemsbiology.org)

Mail: Jen Eklund

Institute for Systems Biology

401 Terry Ave N.

Seattle, WA 98109

Applicants will be notified of their participation status via email on March 30, 2018.

To learn more, please visit

<http://www.engr.washington.edu/future/k12/k12engrscholars>.

If you have questions or need more information, please contact Jen Eklund, [Jen.Eklund@systemsbiology.org](mailto:Jen.Eklund@systemsbiology.org), (206) 732-2123.



# **Program Overview**

K12 Engineering Scholars is an innovative new professional development program for 4th-8th grade Science, Technology, Engineering, and Math (STEM) teachers in Washington State. The program begins with a six-week summer experience, during which teacher participants will:

* Collaborate on a vision to use real-world engineering and Next Generation Science Standards (NGSS) to enhance their current curriculum and enrich student outcomes;
* Be immersed in cutting-edge engineering research;
* Develop curriculum adaptations to engage and inspire their students;
* Design makerspaces to support student learning on their home campuses; and
* Create relationships with engineering and education colleagues across the region.

# **Participating Teachers will receive:**

* $2,000 materials stipend per year per participant to support purchase of makerspace equipment; and
* $8,000 participant stipend per year to support participation in the summer experience and the academic year resource program.

# **The Benefits in the Classroom:**

Your students will:

* Experience real-world engineering scenarios and examples;
* Deepen their ability to use NGSS engineering practices;
* Explore their creativity in on-campus makerspaces; and
* Aspire to education and career pathways that include engineering and STEM fields.

# **Who should apply:**

Applications will require that teachers:

* Actively teach science and/or STEM in one or more targeted grades 4 – 8 (Librarians will be considered if they apply as part of a team that includes a teacher);
* Commit to the attendance and time requirements of both the summer experience and academic year resource program; and
* Commit to develop NGSS-aligned curriculum enhancements that they will share broadly with other teachers/schools/districts.

Priority will be given to:

* Teams of two from a single school
* Teachers from high-needs schools

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| Contact information | | | |
| Name |  | | |
| Home address |  | Home Phone |  |
|  | Cell Phone |  |
|  | Home Email |  |
|  | | | |
| Professional information | | | |
| School |  | School Phone |  |
| School District |  | School Email |  |
| Grade level(s) taught |  | Principal |  |
| Curriculum/kits used |  | | |
| Name of any colleagues at your school who are also applying (Preference will be given to teams of 2 from a single school) | |  | |
|  | |  | |
| I will be available for the entirety of the summer workshop:  yes  no  If no, please explain: | | | |
| In general, I will be available for monthly meetings (in person or virtual):  yes  no  If no, please explain: | | | |
|  | | | |
| Personal Statement | | | |
| Why are you interested in participating in this project? What do you hope to achieve? | | | |
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| Describe any experiences you’ve had incorporating engineering into your classroom previously - what was successful and what were the barriers? | | | |
|  | | | |
| Describe any experiences you’ve had creating or adapting standards-based curriculum (using NGSS or other standards)- what was successful and what were the barriers? | | | |
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| Tell us about your students (beyond demographics numbers) and how they might benefit from your involvement with this program. | | | |
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| The principal support document is  being submitted with this document.  being submitted directly by my principal.  Other, please explain: | | | |
| Comments (*please share any other information you think is important*): | | | |