2014 Davidson Fellows Scholarship
Science Requirements

The applicant must submit a work in a specific domain area of science. Please select one of the following domain areas:

<table>
<thead>
<tr>
<th>Domain</th>
<th>Specific Field</th>
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<tr>
<td>Biology</td>
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<td>Chemistry</td>
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<td>Earth Science</td>
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<td>Science</td>
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<td>Physics</td>
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<td>Space Science</td>
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<td>Other</td>
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**Important:** Applications involving human subjects, live vertebrates or live invertebrates are NOT eligible. The Davidson Fellows Program will consider tissue-related projects, if and only if the applicant can demonstrate:

1. the materials were collected for other purposes; AND
2. the student is collaborating with a qualified lead scientist; AND
3. the lead scientist provides to the Institute documented approval from a recognized Institutional Review Board (IRB) or Scientific Review Committee (SRC).

Documentation must be submitted with the preliminary portion of the application and will be reviewed by the Davidson Institute for Talent Development, who, at its sole discretion, will determine eligibility. The Davidson Institute of Talent Development may, in its sole discretion, also require that other conditions be met before tissue-related projects will be further considered.

**Category Components:**

- A formal research report including a works cited page and an annotated bibliography.
- A visual model. This model is the visual representation of your research and findings.
- *If computer code is involved in the submission, please include it when you send your project components.*
Please note:

- The formatting of the works cited page and annotated bibliography should follow the *American Psychological Association Publication Manual* or any other recognized style guide.

- The visual model can be as individual as your project. It may be photos, a PowerPoint presentation, graphs, diagrams, illustrations, etc.; your project will dictate how you present your work. We also suggest asking your nominators how to best present your research and findings.

**Two Nominators Required**

Two individuals who are familiar with your work must each submit a Davidson Fellows Nominating Form. Family members/relatives may not serve as nominators.

Forms must be submitted directly by the nominator to the Davidson Institute on or before the submission deadline of February 12, 2014, 5 p.m. PST. Both nominators are required. Applications with missing Nominating Forms as of the February 12, 2014 deadline will be disqualified.

**Attachments to the Davidson Fellows Application**

Attachments should be labeled in the upper right hand corner with the applicant’s last name and first initial, category, title of submission and the words Attachment One; Attachment Two. All attachments are to be completed by the applicant. The word count or length of the attachments is up to the applicant. Note: Applicants in ALL categories must submit Attachments 1 through 3.

**ATTACHMENT ONE: Process Essay**

**Part One**: Please answer the following questions:
- What inspired you to pursue this work?
- How much time (hours/days/months) did it take you to complete this work?
- How did you organize the work that went into doing it?
- What difficulties did you encounter and how did you handle them?

**Part Two**: Please answer the following questions:
- Where was the work completed?
- Who supervised your work? (Give names, titles, addresses, e-mail, and phone numbers)
- What help have you received in doing this work?
- List who helped you and what assistance he/she provided. (Please include individuals who offered equipment, ideas, critiques, materials, methodology, etc.)
ATTACHMENT TWO: Significance and Benefit to Society Essay

Please explain why your submission qualifies as a significant piece of work, as defined by at least one of the following criteria:

- exceptional creativity
- a new idea with high impact and/or broad implications
- an innovative solution with regional, state and/or national implications
- an important advancement that can be replicated and built upon
- an interdisciplinary discovery with the potential to effect positive change
- a prodigious performance

Also, please explain how your work may make a positive contribution to society or has social relevance.

ATTACHMENT THREE: Video Describing Work

Submit a maximum 10-minute, home-production quality video recording. You are encouraged to speak “from the heart” in your video, rather than reading directly from a script. The video is a chance to talk about a topic not addressed in the essays or to expand upon a point the essays touched on only briefly.

Suggestions for the structure of the video:

- In the first few minutes, you could briefly describe your submission summarizing why it was done, its significance, its benefit to society/social relevance and other details of your accomplishment.

- Continue by describing how you became interested in this project, how it evolved and how working on it has helped you develop your talents.

- Next, describe how your submission fits into the larger context of the field of study and describe the specific ideas/people/theories that influenced your work.

- Conclude your video with a brief description on how you think your work/talent could be applied/highlighted.