DR. ARNOLD O. BECKMAN’S
rules for success

1. There is no satisfactory substitute for excellence.
2. Absolute integrity in everything.
3. Everything in moderation, including moderation itself.
4. Hire the best people – then get out of their way.
5. Don’t be afraid of making mistakes. If you’re not making mistakes, you’re probably not doing very much.
6. Acquire new knowledge and always ask why.
7. Don’t take yourself too seriously.
The University of Utah – Beckman Scholars Program

https://science.utah.edu/students/student-research/beckman-scholars/

28 January 2022
Dr. Ming Hammond and Dr. Andrew G. Roberts

JANUARY 15, 2020 – THE COLLEGE OF SCIENCE AT THE UNIVERSITY OF UTAH IS PROUD TO BRING THE BECKMAN SCHOLARS PROGRAM, SUPPORTED BY THE ARNOLD AND MABEL BECKMAN FOUNDATION, BACK TO THE UNIVERSITY OF UTAH!

what is this opportunity?
https://www.beckman-foundation.org/about-foundation/arnold-and-mabel-beckman/

The Beckman Scholars Program is a 15-month mentored research experience for exceptional undergraduate students in chemistry, biological sciences, or interdisciplinary combinations thereof.

This generous institutional award, provided by the Arnold and Mabel Beckman Foundation to the University of Utah College of Science, spans three years (2020 – 2023), and will enable the funded support of six scholar–faculty mentor pairs. Each internally selected scholar will receive a $21,000 research stipend to facilitate 15-months of mentored research (nine academic calendar months, two three-month summers), in addition to $5,000 provided for the mentor-directed research.
The University of Utah – Beckman Scholars Program

https://science.utah.edu/students/student-research/beckman-scholars/

what is this opportunity?
https://www.beckman-foundation.org/about-foundation/arnold-and-mabel-beckman/
Dr. Arnold O. Beckman, founder of Beckman Instruments, Inc., created devices that revolutionized the study and understanding of chemistry and human biology. Dr. Beckman often said, "There is no satisfactory substitute for excellence." This philosophy, combined with his personal integrity and love for science, guided his life and helped shape both his company and his highly decorated career.
The success of the Beckman Scholars Program will be measured by its impact on the College of Science as well as the individual Beckman Scholars. At an institutional level, a successfully executed program should result in increased applications for the undergraduate research programs throughout the College of Science.
An illustrative case for a desirable individual outcome is Dr. Reshma Shetty, BSP alumnae from the University of Utah (award year 2000), who performed research with Prof. Olivera in Biology. After publishing with Prof. Olivera, she obtained a Ph.D. in Bioengineering from MIT, and then went on to co-found Ginkgo Bioworks, Inc., a synthetic biology start-up company.

**RESEARCH ARTICLE**

**γ-Glutamyl carboxylation: An extracellular posttranslational modification that antedates the divergence of molluscs, arthropods, and chordates**

Pradip K. Bandyopadhyay, James E. Garrett, Reshma P. Shetty, Tyler Keate, Craig S. Walker, and Baldomero M. Olivera

PNAS February 5, 2002 99 (3) 1264-1269; https://doi.org/10.1073/pnas.022637099

Communicated by John R. Roth, University of Utah, Salt Lake City, UT (received for review September 20, 2001)
Beckman Scholars at the U, 2020 – 2021
(read more here: https://science.utah.edu/beckman/):

**Sonia Sehgal**, PI: Dr. Martin Horvath
*Finding the role of biological probes on MUTYH activity*

**Rory Weeks**, PI: Dr. Luisa Whittaker-Brooks
*Mechanistic understanding of a model solid electrolyte/electrode interface for advancing electrochemical energy storage application*
current Beckman Scholars at the U, 2021 – 2022
(read more here: https://science.utah.edu/beckman/):

Sahar Kanishka, PI: Dr. Gagnon
Lineage tracing in zebrafish with CRISPR prime editing

Rachel Jones, PI: Dr. Hollien
Role of p62 in alternative degradation of Huntingtonin protein
28 January 2022

eligibility: Prospective scholars must apply with one of fifteen internally selected UoU Beckman Scholars Program mentors. For participating faculty research mentors, see Figure 1 (next slide)

In addition, a prospective scholar must:

1. Be a full-time student and a declared science major;
2. Be a U.S. citizen or permanent resident;
3. Be a freshman, sophomore, or junior;
4. Commit to an independent research project that will last two summer semesters and the entire academic year in between.

application details: Please attend the 2022 information session. Prof. Ming Hammond and Prof. Andrew Roberts will provide a UoU Beckman Scholars Program overview and detail the application process. See Table 1 (next slides) for details and deadlines on the application and selection process.
program faculty mentors:
fifteen internally selected UoU Beckman Scholars Program mentors (Figure 1)

- Armentroug, Analytical & Physical Chemistry
- Burrows, Organic & Biological Chemistry
- Gagnon, Developmental Genetics
- Hammond, Biochemistry & Synthetic Biology
- Hollien, Cell & Molecular Biology
- Horvath, Structural Biology & Biochemistry
- Jorgensen, Biochemistry & Instrumentation
- Looper, Organic Synthesis & Medicinal Chemistry
- Louie, Catalysis & Synthesis
- Minteer, Analytical Chemistry & Biochemistry
- Molinero, Physical Chemistry
- Roberts, Organic & Chemical Protein Synthesis
- Sigman, Organic Synthesis & Catalysis
- Vershinin, Single Molecule Biophysics & Soft Matter
- Whittaker-Brooks, Organic-Inorganic Hybrid Electronics
additional details about the Arnold and Mabel Beckman Foundation and the Beckman Scholars Program can be found here:

The Arnold and Mabel Beckman Foundation Mission Philosophy
The Beckman Scholars Program

Table 1. Activity timeline for UoU Beckman Scholar recruitment and selection

<table>
<thead>
<tr>
<th>Date</th>
<th>activity (2020 – 2023, recurring annually)</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 28, 2022</td>
<td>information session (today) and solicitation</td>
</tr>
<tr>
<td>March 31, 2022</td>
<td><strong>application deadline:</strong> March 31, 2022 at 6:00 p.m. MST, see application guidelines and submission information</td>
</tr>
<tr>
<td>mid-April</td>
<td>finalists selected for interviews</td>
</tr>
<tr>
<td>late April</td>
<td>finalist interviews scheduled/conducted</td>
</tr>
<tr>
<td>May 1, 2022</td>
<td><strong>scholars selected</strong></td>
</tr>
<tr>
<td>May 15, 2022</td>
<td>report submitted to Beckman Foundation</td>
</tr>
<tr>
<td>June 2022</td>
<td><strong>BSP start for 2022 – 2023 period</strong></td>
</tr>
</tbody>
</table>
application guidelines and submission information

https://science.utah.edu/uncategorized/beckman-application/

application deadline: March 31, 2022, at 6pm MST.

required from applicant

application form: https://forms.gle/nj9Xjwa4r35JZKbp9

Please email roberts@chem.utah.edu with any questions.

research interest and eligibility form: The form will ask for declared major, U.S. citizen or permanent resident status, selected BSP faculty mentor from the list of approved mentors, research area, and career goal statement. Students should also be ready to commit to a research project that will last two summer semesters and the entire academic year in between. As such, applicants currently need to be a freshman, sophomore, or junior.

in addition: The applicant must upload the following information in a single combined PDF using the filename [last name of applicant]_BSP2021 using the Google Form.

e.g., roberts_BSP2021.pdf
Application deadline: March 31, 2022, at 6pm MST.

in addition: The applicant must upload the following information in a single combined PDF using the filename [last name of applicant]_BSP2022 using the Google Form. e.g., roberts_BSP2022.pdf

- **curriculum vitae** (2 pages maximum): The CV should include research and work experiences, awards, extracurricular activities.
- **unofficial copy of applicant’s academic transcript**: Academic information must include full-time student status, coursework.
- **research proposal**: NSF fellowship format research proposal (2 pages).
- **short essay**: Students will be given “The Legacy of Arnold O. Beckman” (page 9 of Terms and Conditions) to read and asked to write a 250-word essay explaining which one of Dr. Beckman’s rules they would embody as a UoU Beckman Scholar.

required from mentor

**letter(s) of support**: One letter is required from a person that can assess the student’s potential for independent research (research mentor); an additional letter is optional. Mentors should submit the letter(s) of support as a PDF to uoubeckmanscholarsprogram@gmail.com
The University of Utah – Beckman Scholars Program

Application deadline: March 31, 2022, at 6pm MST.

in addition: The applicant must upload the following information in a single combined PDF using the filename [last name of applicant]_BSP2022 using the Google Form.

- **research proposal:** NSF fellowship format research proposal (2 pages).


  The statements must be written using standard 8.5” x 11” page size, 12-point, Times New Roman font, 1” margins on all sides, and must be single-spaced or greater. References, footnotes, and figure captions must be no less than 10-point Times New Roman. Failure to follow any of these guidelines will result in an application being returned without review.

  **resource:** [NSF GRFP examples](https://www.beckman-foundation.org/about-foundation/7-rules-success/)

- **short essay:** Students will be given “The Legacy of Arnold O. Beckman” (page 9 of Terms and Conditions) to read and asked to write a 250-word essay explaining which one of Dr. Beckman’s rules they would embody as a UoU Beckman Scholar and explain your short (1-2 years) and long-term (10 years) career goals.

short essay: Students will be given “The Legacy of Arnold O. Beckman” (page 9 of Terms and Conditions) to read and asked to write a 250-word essay explaining which one of Dr. Beckman’s rules they would embody as a UoU Beckman Scholar and explain your short (1-2 years) and long-term (10 years) career goals.

https://www.beckman-foundation.org/about-foundation/7-rules-success/

1. There is no satisfactory substitute for excellence.

2. Absolute integrity in everything.

3. Everything in moderation, including moderation itself.

4. Hire the best people - then get out of their way.

5. Don't be afraid of making mistakes. If you're not making mistakes, you're probably not doing very much.

6. Acquire new knowledge and always ask why.

7. Rule #7: Don't take yourself too seriously.
application form: https://forms.gle/nj9Xjwa4r35JZKbp9
DR. ARNOLD O. BECKMAN'S
rules for success

1. There is no satisfactory substitute for excellence.
2. Absolute integrity in everything.
3. Everything in moderation, including moderation itself.
4. Hire the best people - then get out of their way.
5. Don't be afraid of making mistakes. If you're not making mistakes, you're probably not doing very much.
6. Acquire new knowledge and always ask why.
7. Don't take yourself too seriously.