The Habitable Worlds Observatory
NASA Astrophysics Division
Great Observatory Maturation Program (GOMAP)
Mentoring Thoughts

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Every START and TAG member is already a conduit for individuals at their institution to participate more broadly in HWO, including colleagues (any career stage) and students (B.A., B.S., M.S., PhD, PostDocs).
Boost and grow participation in HWO from historically under-resourced institutions and individuals who attend them.

- The is an additional mentorship program targeting institutions not represented on the START.
- Flagships are multi-generational and need multiple SMEs across multiple STEM fields
- They are a perfect opportunity to improve the diversity, equity, inclusion and accessibility (DEIA) of NASA’s workforce, missions, and the broader U.S. communities.
We want to meet each student where they are.
This doesn’t have to be a “one size fits all” mentoring program

Website Identification:
- Ideally, each START & TAG member has a short bio on the HWO webpage
- Prospective students can choose:
  - The “type” of mentoring they want to receive (see next few slides)
  - Their desired candidate mentor(s) based on their interests
  - Rotations, or even “speed mentoring” is perfectly okay
Aligned with NASA SMD’s Bridge Program:

“The program’s primary goal is to develop sustainable partnerships among institutions historically under-resourced by NASA, e.g., Minority-Serving Institutions (MSIs) such as Historically Black Colleges and Universities (HBCUs), and Tribal Colleges and Universities (TCUs), Primarily Undergraduate Institutions (PUIs), Primarily Black Institutions (PBIbs), Hispanic Serving Institutions (HSIs) and Community Colleges; and very highly research-intensive universities and NASA Centers or Facilities.

These partnerships are expected to focus on paid research and engineering student positions at participating institutions with the goal of transitioning science and engineering students from undergraduate studies into graduate schools and/or employment by NASA or related institutions.”

• Goal: Bridge partnerships where no NASA collaboration currently exists, through seed funding.

• NASA’ Bridge Program has funding for students and faculty, however, without mentors

• HWO’s START and TAG members want to be mentors

• Join forces
Multiple types of mentoring programs:

- 1-on-1 mentoring
- Group mentoring
- Peer mentoring
- Reverse mentoring
- Flash mentoring

https://www.togetherplatform.com/blog/15-mentorship-program-ideas
GOMAP HWO Mentoring Ideas

20+ mentorship activities that unlock new perspectives and encourage impactful discussion:

- Shadowing
- Attend a conference together
- Choose a book together and discuss it
- Pursue a volunteer activity
- Attend a networking event
- Attend events outside office to stimulate creativity
- Complete a project together
- Grab a coffee and go for a walk
- Share interesting articles to encourage discussion
- Share career stories
- Have mentors sit in on a mentee’s presentation
- Meet up with another mentor-mentee pair
- Provide feedback on each other’s work
- Introduce mentees to mentor’s prof. networks
- Mock interviews
- Field trips
- Case studies
- Reflective journaling
- Leadership training
- Group discussion
- Conduct a resume revision session
- Listen to TED Talks related to mentoring goals

https://www.togetherplatform.com/blog/15-mentorship-program-ideas
GOMAP HWO: We want START & TAG Ideas on Mentoring

Possible path forward:

• Relative near-term: Couple Bridge Program (whose looking for mentors) with HWO START & TAG members

• Long-term: NASA wants to co-create a longer-term mentorship program with you and the community

We want your ideas!
We would like to invite Padi to come speak with the START & TAG members at a future TBD date
(A virtual START & TAG meeting)

Further details on NASA’s Bridge Program

Bridge Program Director: Dr. Patricia “Padi” Boyd

padi.boyd@nasa.gov

cc SARA@nasa.gov
GOMAP HWO Mentoring Could Dovetail into NASA SMD’s Bridge Program

NASA SMD’s Bridge Program:

- No deadlines - it’s an “open” call for mentees
- Bridge program has funding ($5M per year) (on top of funding set aside for GOMAP HWO)

<table>
<thead>
<tr>
<th>Proposal category (cost cap per year)</th>
<th>Anticipated number selected</th>
<th>Page Limit of Science Section</th>
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</thead>
<tbody>
<tr>
<td>Small ($70K)</td>
<td>~20</td>
<td>5</td>
</tr>
<tr>
<td>Medium ($150K)</td>
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<tr>
<td>Large ($500K)</td>
<td>~3</td>
<td>7</td>
</tr>
<tr>
<td>Key ($2000K)</td>
<td>~1</td>
<td>15</td>
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</tbody>
</table>

SMD expects to award ~$5M per year to successful Bridge teams. Proposals can be submitted in four broad funding categories (Small, Medium, Large or Key program), with Small proposal budgets requesting <$70K per year; Medium <$150K per year; and Large < $500K per year. “Key Program” proposals must propose to build a consortium of partner institutions whose goals include increasing the research capacity across multiple participating institutions, with a higher funding level (<$2M per year). For all cost categories, funding duration can range from one to five years.

Funded SMD Bridge teams may support faculty and students in paid research and engineering opportunities appropriate to their career levels, from apprenticeships and internships to graduate research to postdoctoral opportunities to PUI faculty researcher partnerships.

The SMD Bridge Program is multifaceted. Proposals relevant to a specific SMD division, or multiple divisions are eligible. Partnerships may involve any NASA Center or facility or a NASA Science mission. Research experiences eligible for Bridge funding may align with any element(s) described in ROSES, including Divisional research and analysis (R&A) programs, Data Science, technology (e.g., instrument) development, and missions outside of ROSES.

While partnerships with NASA Centers are encouraged, proposals to bridge with a significant NASA-funded project led by a non-NASA organization (such as a Principal Investigator (PI)-led mission with a University) are allowable.
Timeframe:

F.23 SMD Bridge Program Seed Funding

Bridge Program Seed Funding proposals may be submitted at any time but will be reviewed as follows:

<table>
<thead>
<tr>
<th>Proposal Submission Date</th>
<th>Corresponding Review</th>
<th>Anticipated Award Start Date Up to</th>
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<tbody>
<tr>
<td>June 30, 2023</td>
<td>Summer 2023</td>
<td>October, 2023</td>
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<td>Up to October 15, 2023</td>
<td>Winter 2023</td>
<td>February, 2024</td>
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<tr>
<td>Up to March 29, 2024</td>
<td>Spring 2024</td>
<td>Summer, 2024</td>
</tr>
</tbody>
</table>

Thereafter, submit via ROSES-2024, expected to be released February 14, 2024.
F.20 SMD Bridge Program

The time frame estimate for proposals for full SMD Bridge Program Partnerships is:

- **Release of final Call (as ROSES F.20)**: No earlier than Summer, 2023
- **Pre-proposal webinar**: ~3 weeks after final text release
- **Proposals due**: NET 90 days after final text release
- **Selection announced**: 1st Quarter Calendar Year 2024 (target)

A proposal template may be made available prior to release of the final text. Proposers should read the final text carefully when it is released.