2020 ISB Summer Undergraduate Research Experiences Application

In order to submit an application for ISB's Summer Undergraduate Research Experiences Program, please complete all sections of the application. Disclosure of your demographic information is optional but help us better understand you and the applicant pool as a whole. Further, placement and funding decisions are made on a case by case basis and your demographic information might qualify you for specific projects or funding.

Required

1. **Email address** *

2. **First name:** *

3. **Last name:** *

4. **Will you be 18 years old or older on June 01, 2020?** *
   Mark only one oval.

   ◯ Yes

   ◯ No

5. **Primary phone number:** *

6. **If ISB does not provide you with financial support, would you be able to participate in the program?**
   ISB works to make sure that all students who need financial support to participate in research experiences, receive that support. Your answer to this question will not be used to determine whether or not you are placed.
   Mark only one oval.

   ◯ Yes

   ◯ No

   ◯ Other: _____

7. **Do you identify as a member a disadvantaged, marginalized, historically excluded, or traditionally underrepresented group in STEM fields?**
   Mark only one oval.

   ◯ Yes

   ◯ No

8. **If you answered "yes" in the previous question, please specify the relevant group(s) with which you identify:**

9. **To which gender identity do you most identify?**
   Mark only one oval.

   ◯ Female

   ◯ Male

   ◯ Gender variant / non-conforming

   ◯ Other: _____

10. **I am available for a research experience during the following 10 week intervals (check all that apply)** *
    Check all that apply.

    ☐ June 1, 2020 to August 7, 2020

    ☐ June 8, 2020 to August 14, 2020

    ☐ June 15, 2020 to August 21, 2020

    ☐ June 22, 2020 to August 28, 2020

    ☐ I am not available for any of these intervals

11. **If placed, your research team relies upon you to be there the entire time. In such a brief and busy program, missing more than one work day is usually problematic. If you have pre-existing plans that will prevents you from being there during the intervals you checked above, please let us know here:**

    _____

    _____

    _____

    _____

    _____

Your undergraduate education
Please provide the following information about your undergraduate education.

12. **In what college or university are you currently enrolled?** *

    _____

13. **In what city and state is your current college or university?** *

    _____

14. **What is your academic status during the 2018-19 Academic Year?** *
    Mark only one oval.

    ◯ 1st year undergraduate

    ◯ 2nd year undergraduate

    ◯ 3rd year undergraduate

    ◯ 4th year undergraduate

    ◯ 5th or higher year undergraduate

    ◯ Other: _____

15. **What is your current (or intended) major?** *

    _____

16. **What is your second major (if any)?**

    _____

17. **What is your minor (if any)?**

    _____

18. **What is your cumulative GPA? ***

_____

19. **When do you expect to complete your degree (mm/yyyy)? ***

_____

20. **List up to ten of the most relevant science, technology, math, or engineering courses you HAVE COMPLETED and the letter grade you received.(You must provide the course title, not just the number. For example, Math306 - Linear Algebra II, B+). ***

_____

_____

_____

_____

_____

21. **List up to five of the most relevant courses you expect to complete by Summer 2019:(You must provide the course title, not just the number. For example, Math306 - Linear Algebra II).**

_____

_____

_____

_____

_____

Skills

To help place you with the correct Research Mentor and project, we want to know more about your skills. Click the circles below to indicate your skill level in two or more areas. We know the list is long and we expect that most of our applicants will only be able to check a circle in a few lines.

For each skill set, use the following scale:
1 - You've had some experience and can handle simple tasks with guidance.
2 - You've done one or two related projects with supervision and can handle basic tasks.
3 - You've worked in this skill area several times and can work with limited supervision by using reference materials.
4 - You regularly work in this skill area and can independently handle most tasks using reference materials.
5 - You can independently handle most tasks and have been a teacher, coach, or role model for others.

22. **General skills**

Mark only one oval per row.

	1	2	3	4	5
Working independently to solve a problem	◯	◯	◯	◯	◯
Describing/doing something mathematically outside of class	◯	◯	◯	◯	◯
Helping a team work together to solve a problem	◯	◯	◯	◯	◯
Gained a skill outside of a formal educational setting	◯	◯	◯	◯	◯

23. **Research skills**

Mark only one oval per row.

	1	2	3	4	5
Analyzing data with spreadsheets	◯	◯	◯	◯	◯
Analyzing data with statistical software	◯	◯	◯	◯	◯
Scientific writing	◯	◯	◯	◯	◯
Presenting research findings	◯	◯	◯	◯	◯
Searching and analyzing scientific literature	◯	◯	◯	◯	◯

24. **"Wet lab" skills**

Mark only one oval per row.

	1	2	3	4	5
Field work (terrestrial or marine)					
General biological lab work					
Genetics lab work					
Microbiological lab work					
Molecular biology lab work					
Clinical work (human or animal)					
Chemistry lab work					

25. **"Dry lab" skills**

Mark only one oval per row.

	1	2	3	4	5
Shell scripting					
Entering and extracting database records					
Creating databases					
Running machine learning algorithms					

26. **Coding skills**

Mark only one oval per row.

	1	2	3	4	5
Modifying computer code others have written					
Running simple scripts					
Writing code					
Writing functions					
Creating classes, packages, or modules					

27. **If you indicated any level of skill in the "coding skills" section, please choose the language(s) in which you possess these skills:**

Check all that apply.

- [ ] R
- [ ] Python
- [ ] Matlab
- [ ] C
- [ ] JavaScript
- [ ] Other: _____

28. **Briefly describe the projects, jobs, or hobbies that demonstrate your skills in the areas you checked above. Please include links if they are appropriate. (500 words or fewer) ***

_____

_____

_____

_____

_____

29. **From the list of skills above, choose two skills you would like to learn or improve during the course of your research experience: ***

_____

30. **Explain why you chose these skills:** *

_____

_____

_____

_____

_____

Research area of interest

31. **Choose your top area of interest in biology.** *

Mark only one oval.

○ Cancer biology

○ Immunology

○ Infectious disease

○ Microbial ecology

○ Neurologic disorders

○ Organism-environment interactions

○ Personalized medicine

○ Developmental biology

○ Wellness

○ Clinical Data Science

○ Other: _____

32. **Please explain your reasoning for your choice in the previous questions (250 words).** *

_____

_____

_____

_____

_____

33. **Consider the extent to which you agree with the following statement: Since the research experience is what's most important to me and I enjoy new challenges and learning new things, I will gladly work with a research team even if it is not in a field or with the skills I indicated above.** *

Mark only one oval.

○ Strongly disagree

○ Disagree

○ Neutral

○ Agree

○ Strongly agree

Resume/CV and transcripts (unofficial)

34. **Please upload your resume or CV. Use the format firstname_lastname_resume or firstname_lastname_CV to name your file.**
    Allowable files types: Word, Google doc, PDF; Maximum file size: 1 MB
    Files submitted:

35. **Please upload your undergraduate transcripts. Unofficial copies are fine. Use the format firstname_lastname_transcripts#n**
    Allowable files types: Word, Google doc, PDF; Maximum file size: 10 MB; please upload all relevant transcripts if you have attended more than one institute.
    Files submitted:

Written responses

36. **Please describe your current academic and/or career goals and describe how this experience will help you achieve them: (400 words)** *

37. **Please tell us about a challenging situation you faced and how you responded to it? (200 words)**
*

38. **Please tell us about your interests outside of your academics: (200 words)** *

39. **We have tried to make this application process comprehensive, but if you encountered any difficulties with the application form OR you would like to share information pertinent to your application which was not covered above, please do so here. (200 words)**