

# SONiC Mentorship Proposal Template

Updated 2/21/26

Please follow this link to view the live mentorship description page:

<https://mentorship.lfx.linuxfoundation.org/project/1dbecd05-87ae-476f-9d0a-1985cc001ec6>

This page gives great insight into what the final proposal will look like.

## Screenshot for accessibility

The screenshot shows a mentorship proposal page. On the left is the RISC-V logo with a 'View Repository' link. The main title is 'Creating an Execution-Driven Version of Olympia, the Performance Model of example RISC-V superscalar'. Below the title are tags for 'Computer architecture', 'C++', 'Performance modeling', and 'Being able to collaborate with others'. There are two buttons: 'Apply' (blue) and 'View Crowdfunding' (green). Under 'Mentees' and 'Mentors', there is a profile picture of a man. Under 'Sponsor Organizations', there is no content. The 'Active Terms' section shows 'Spring 2026'. The description text reads: 'Performance models are essential tools in both academia and industry for analyzing the efficiency of superscalar processor micro-architectural features. Olympia is a widely adopted performance model within the RISC-V community. Performance models can be categorized as either trace-driven or execution-driven. Trace-Driven Models rely on an instruction trace, which is simply a sequence of retired instructions. Execution-Driven Models (EDM), in contrast, use the program binary and associated data. This allows EDMs to simulate not only the sequence of retired instructions but also speculatively fetched and executed instructions resulting from mis-speculations like branch mis-predictions and memory-dependency mispredictions. Consequently, execution-driven simulations offer greater accuracy in prediction.'

## Information To Include In Final Proposal

### Problem Statement

- Please provide a brief 1-2 paragraph description identifying the problem and how the mentorship program aims to address this issue.
  - Please refer to the example above if you feel stuck

### Mentorship Objectives

- Include 2-4 points detailing what the main objectives are for this mentorship.

### **Expected Outcomes and Deliverables**

- Please communicate clear objectives so that potential mentees can fully understand what they are applying for.
- Include 2-4 bullets

### **Recommended Qualifications**

- Please include the recommended qualifications that you feel are justified for this particular mentorship.

### **Mentor(s) Names and Contact Info**

- Please include your first and last name and email address for all mentors that will be involved for this program.

### **Region Mentorship Plans to Focus On**

- Please include the region that your program plans to focus on.

### **Preferred Semester**

- Please indicate which semester term you would like your mentorship program to fall under.
  - Summer Term: May 11 - August 14
  - Summer / Fall Term: May 11 - November 20