**Interdisciplinary Materials Science and Engineering program research overview**

***This research overview should be reviewed and approved by your advisor before submitting for review by the Steering Committee.***

**Student: Date:**

**Advisor: Department:**

**Interdisciplinary Mentor: Interdisciplinary Mentor Department:**

**Year of study:**

**Research Title:**

***To be considered for the Materials Science and Engineering Program, the research overview must describe how the research fits within materials science and engineering. Materials science and engineering is most broadly concerned with understanding how the history of a material (e.g., processing, environment or use) influences its structure and composition, and thus its properties and performance. The understanding of processing-structure-property relationships is called the materials paradigm and central to materials research [1].***

***[1] W.D. Callister and D.G. Rethwisch, Materials Science and Engineering: An Introduction, 10th (or Earlier) Edition(s), Wiley, 2020.***

*More information on the interdisciplinary mentor can be found in section* ***IV. Advising*** *of the* [***Materials Science and Engineering Handbook.***](https://nano.nd.edu/assets/400570/mse_doctoral_handbook.pdf)

***Research Overview:*** *One page maximum, Arial font size 10.*

*Include the following sections:*

**Background**

*(If available, include relevant preliminary data in your background section.)*

**Research Goals**

*(Emphasis should be on the goals of the research and future work.  This should not be a re-stating of work that has already been completed. Explain how this research fits within materials science and engineering. Consider the guidance on page 1 of the template.)*

**Interdisciplinary Mentor**

*(Students, in consultation with their advisor, are requested to provide a paragraph describing the interdisciplinary nature of the research, and how the interdisciplinary mentor(s) will be engaged to provide expertise and/or resources through the tenure of the research.)*

**Impact**

*(Describe the anticipated impact and implications of your planned research on the field, materials science and engineering, and/or broader world.)*

**References**

*(not part of page limit)*