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Research Area: Computer Science and Mathematics

The research project involves a three-dimensional (3-D), parallel code for simulating grain growth using the phase field technique. The code will be generated by modifying an existing parallel grain growth code that uses a Monte Carlo technique. The parallel phase field code will be used to generate grain structures in large 3-D domains, and the results will be compared with the experimentally observed features of grain growth in single-phase alloys.

Research Mentors:

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