

Ph.D. position in Computational Mechanics at the University of Wyoming

One or two funded Ph.D. positions are available in the Department of Mechanical Engineering at the University of Wyoming, with the earliest starting date in Fall 2019. The candidates will join the research group of Dr. Xiang Zhang (new faculty to join in Fall 2019) working in the general area of multiscale/multiphysics computational mechanics. Particularly, self-motivated individual interested in working in one or multiple of the following areas are strongly encouraged to apply:

- 1) Crystal plasticity finite element modeling, with particular interest in fatigue initiation prediction in additively manufactured metals;
- 2) Modeling of microstructure evolution during metal additive manufacturing;
- 3) Thermo-chemo-mechanical modeling of polymer and polymeric composites curing process, with particular interest in its application in 3D printing;
- 4) Cohesive-zone and phase field model based damage modeling in metals and composites;
- 5) Multi-scale reduced-order modeling with particular interest in sensitivity analysis and microstructure design of fiber-reinforced composites.

Candidates should possess a Bachelor's degree in civil, mechanical, or other related engineering field at the time of enrollment at UW. A strong background in computational mechanics, materials science of metals/composites, additive manufacturing, and/or programming experience is desired. Master's degree is not required, but considered as a plus.

If interested, please contact Dr. Zhang at xiang.zhang@uwyo.edu, with your CV and a brief description of prior research experiences and how your interests align with the research areas listed above. In your CV, please include: GPA, GRE test scores, and publication list if available. Minimum GRE scores for admission are Q 155 and V 140. A minimum score of TOEFL is 76 if applicable. Evaluation will start immediately until filled. For fall 2019 consideration, the candidate is encouraged to contact Dr. Zhang as soon as possible.

A list of publications and background about Dr. Xiang Zhang can be found at:

https://www.researchgate.net/profile/Xiang_Zhang13

小木虫

美国怀俄明大学机械工程系计算固体力学方向博士招生

本人即将于八月份去怀俄明大学机械工程系任教职，计划招 1-2 名博士生，最早可以现在申请，八月底入学，也可以明年春季或者秋季。提供奖学金覆盖学费，医疗保险和生活费。具体待遇请参考最新官方说明：<http://www.uwyo.edu/research/proposal-development/proposal-tool-kit/graduate-assistantships.html>。

本人主要研究兴趣是通过多尺度，多物理计算力学方法，研究材料在加工及服役过程中的变形和失效，最终实现对材料微观结构及加工工艺的设计以达到特定的力学性能。非常欢迎对该领域感兴趣的本科或者硕士生申请。

怀俄明大学位于位于俄明州的小城拉勒米市，拉勒米属于小的大学城，总人口大约三万人，其中包含学生一万三千人。当地居民友好，包容，整个小城非常安全。气候比较严寒，但冬天也阳光充足，户外活动丰富，滑雪，钓鱼，顶级滑雪，钓鱼，山地骑行场所都在四十分钟左右车程可触及，是读书生活的不错去向。

如果对此职位感兴趣或有任何疑问，请邮件和我联系：zhangx22@illinois.edu

我的研究及其它信息请移步：https://www.researchgate.net/profile/Xiang_Zhang13

职位的英文描述请见附件或者链接：<https://imechanica.org/node/23350>