Faculty Name:
Carlos Paz-Soldan
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Lab:
Columbia Plasma Physics Laboratory
Project Title:
Pythonic GUI Interface for TokaMaker Software
Description:
Scientists at Columbia have recently developed a flexible new modeling suite called TokaMaker, which is able to reconstruct equilibria, assess stability and optimize time-dependent control schemes for tokamak plasmas. This will be an essential tool in the design and preparation of future fusion energy systems. In this project, we will develop a GUI interface for the new code, focusing on flexibility in use and advances in physics understanding. The GUI will be made publicly available to the fusion community, ensuring a broad and lasting impact for the code. Applicants should have a strong coding background, preferably in python. Students will also generally assist with other Columbia Plasma Physics Lab initiatives. More information can be found at https://plasma.apam.columbia.edu
** This position and others in Prof Paz-Soldan's group have a common application **
** Please apply using the form https://forms.gle/viSUdEneLy66vFaZ6. Do NOT email the PI **
** Flexibility in project choice is welcome **
Location of Research:
On Site
# of hrs/week:
40
Department/Program:
Applied Physics and Applied Mathematics
Eligibility:
BS, First Year, BS, Second Year, BS, Third Year
To apply, please contact:
Carlos Paz-Soldan
carlos.pazsoldan@columbia.edu