APPLICATION DEADLINES

<table>
<thead>
<tr>
<th>Type of Applicant</th>
<th>Fall Deadline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Domestic Applicants</td>
<td>December 15, 2023</td>
</tr>
<tr>
<td>International Applicants</td>
<td>December 15, 2023</td>
</tr>
</tbody>
</table>

For more admissions information or to apply to the program, please visit our Graduate School website (https://gradschool.umd.edu/admissions/application-process/step-step-guide-applying/).
F (student) or J (exchange visitor) visas; A,E,G,H,I and L visas and immigrants  December 15, 2023

RESOURCES AND LINKS:
Other Deadlines: astro.umd.edu (http://www.astro.umd.edu)
Program Website: astro.umd.edu/graduate/admissions (http://www.astro.umd.edu/graduate/admissions.html)

REQUIREMENTS
• Astronomy, Doctor of Philosophy (Ph.D.) (https://academiccatalog.umd.edu/graduate/programs/astronomy-astr/astronomy-phd/)
• Astronomy, Master of Science (M.S.) (https://academiccatalog.umd.edu/graduate/programs/astronomy-astr/astronomy-ms/)

FACILITIES AND SPECIAL RESOURCES
The Department has guaranteed observing time on the 4.3-meter Discovery Channel Telescope through a partnership with Lowell Observatory. We have strong interactions with other major observatories, where many students and faculty maintain observing programs, and with neighboring scientific institutes, including the Naval Observatory, the Naval Research Lab, and other government agencies. We have joined with Caltech and other partners in the Zwicky Transient Facility, a time-domain survey for studying rare and exotic transient phenomena which will see first light at Palomar Observatory in 2017. Our planetary science team is heavily involved with space missions visiting solar system bodies, such as NASA’s Deep Impact, EPOXI, and Rosetta missions to study comets.

The Center for Research and Exploration in Space Science and Technology II (CRESST II) is the most visible of our many interactions with NASA’s Goddard Space Flight Center, located only 5 miles away. UMD researchers work together with Goddard scientists on many topics, ranging from the study of neutron stars, black holes, and extremely hot gas throughout the universe to the study of planets in our Solar System. This partnership offers an exciting array of opportunities for graduate students to work with Goddard scientists and facilities on their Ph.D. theses.

U. Maryland and NASA’s Goddard Space Flight Center formed the Joint Space Science Institute (JSI), a close collaboration between the Departments of Astronomy and Physics and NASA/Goddard. JSI’s areas of investigation include black hole physics, high-energy astrophysics, and cosmology.

The Department has also established a partnership with Pontificia Universidad Catolica de Chile (PUC). PUC, one of the top two institutions for astronomy in Chile, signed an agreement with UMD in 2010 that enables astronomy graduate students at both institutions to participate in a joint Ph.D. program starting in their third year. These students split their time between both locations and conduct their thesis research under the supervision of UMD and PUC co-advisors. UMD students gain improved access to Chilean observatories, which include many of the best telescopes in the world.

The Center for Theory and Computation (CTC), a strong group of theoretical astrophysicists within the department, built and maintains a Beowulf cluster to perform computational analyses and simulations across a range of research areas. We also have access to three larger university clusters, including the world-class “DeepThoughtZ” and “MARCC/Bluecrab”, which have been invaluable to our students in completing computationally-intensive thesis projects.

In 2014, much of the Department moved to the new Physical Sciences Complex (PSC). Highlights of the building include beautiful architecture, windowed office space for grad students, a grad student lounge, and a state-of-the-art visualization lab for state-of-the-art simulations and displays of large datasets.

This Department is associated with the following research units and facilities:
• Center for Research and Exploration in Space Science and Technology II (CRESST II) (http://cresst.umd.edu/): Partnership between UMCP, UMBC, USRA, and NASA/Goddard, with an emphasis on high-energy astrophysics.
• Laboratory for Millimeter Wave Astronomy (LMA) (http://www.astro.umd.edu/rareas/lma/)
• Center for Theory and Computation (CTC) (http://www.astro.umd.edu/rareas/ctc/): Astronomy Dept. center for theory- and computation-related research programs.
• Discovery Channel Telescope (DCT) (http://www.astro.umd.edu/facilities/dct.html)
• Zwicky Transient Facility (ZTF) (https://www.ptf.caltech.edu/ztf/)
• PDS Small Bodies Node (https://pds-smallbodies.astro.umd.edu/) (https://www.ptf.caltech.edu/ztf/)