

## 【Job description】

KASI			
<b>Position</b>	[Faculty position] Radio Astronomy Division - Developer for ALMA Spectrometer/Correlator - Scientist working at the ARC in Korea	<b>Code</b>	A6
<b>KASI's function</b>	<ul style="list-style-type: none"> <li>◦ Performing a key role in Astronomy and Space Science</li> <li>◦ Developing and operating research facilities for Astronomy and Space Science</li> <li>◦ Developing technologies related to Space Situational Awareness</li> <li>◦ Managing national astronomical almanac and Korean Standard Time</li> <li>◦ Performing public outreach &amp; citizen science for Astronomy and Space Science</li> <li>◦ Collaborating R&amp;D projects with public and private sectors</li> <li>◦ Fostering R&amp;D manpower and establishing policy for Astronomy and Space Science</li> </ul>		
<b>Type</b>	◦ five-days a week		
<b>Working Place</b>	◦ Daejeon City, Republic of Korea		
<b>Process</b>	◦ Document Review ⇒ Presentation & Q&A ⇒ Comprehensive Review ⇒ Personnel Committee Review (Career, Background check, etc.) ⇒ Confirm of appointment		
<b>General Requirement</b>	◦ Refer to recruitment notice		
<b>Degree Requirement</b>	◦ A Ph.D. in astronomy or related field		
<b>Details</b>	<b>Key duties</b>	<ul style="list-style-type: none"> <li>◦ Development of GPU(Graphic Processing Unit) Spectrometer and Correlator</li> <li>◦ Research on radio astronomy</li> </ul>	
	<b>Task details</b>	<ul style="list-style-type: none"> <li>◦ Programming, documentation, and project management for the development of GPU Spectrometer and Correlator for ALMA (Atacama Large Millimeter/submillimeter Array)</li> <li>◦ 50% for duty of Korean-ALMA Regional Center(ARC) and 50% for radio astronomy research</li> </ul>	
	<b>Knowledge &amp; Skills requirement</b>	<ul style="list-style-type: none"> <li>◦ Experience of GPU programming and digital signal processing</li> <li>◦ Research experience on radio interferometry</li> </ul>	
	<b>Attitude</b>	<ul style="list-style-type: none"> <li>◦ Good communication ability in English</li> <li>◦ Responsibility to carry out tasks successfully</li> <li>◦ Challenge for new technology or new research field</li> </ul>	
<b>Basic Ability</b>	<ul style="list-style-type: none"> <li>◦ General knowledge about computer hardware and software</li> <li>◦ Good relationship with colleagues</li> </ul>		

## 【Job description】

KASI			
<b>Position</b>	[Faculty position] Theoretical Astronomy - Cosmology in large-scale structure	<b>Code</b>	A7
<b>KASI's function</b>	<ul style="list-style-type: none"> <li>◦ Performing a key role in Astronomy and Space Science</li> <li>◦ Developing and operating research facilities for Astronomy and Space Science</li> <li>◦ Developing technologies related to Space Situational Awareness</li> <li>◦ Managing national astronomical almanac and Korean Standard Time</li> <li>◦ Performing public outreach &amp; citizen science for Astronomy and Space Science</li> <li>◦ Collaborating R&amp;D projects with public and private sectors</li> <li>◦ Fostering R&amp;D manpower and establishing policy for Astronomy and Space Science</li> </ul>		
<b>Type</b>	◦ five-days a week		
<b>Working Place</b>	◦ Daejeon City, Republic of Korea		
<b>Process</b>	◦ Document Review ⇒ Presentation & Q&A ⇒ Comprehensive Review ⇒ Personnel Committee Review (Career, Background check, etc.) ⇒ Confirm of appointment		
<b>General Requirement</b>	◦ Refer to recruitment notice		
<b>Degree Requirement</b>	◦ A Ph.D. in astronomy or related field		
<b>Details</b>	<b>Key duties</b>	<ul style="list-style-type: none"> <li>◦ Researches on theoretical cosmology in large-scale structure</li> <li>◦ Research group management</li> </ul>	
	<b>Task details</b>	<ul style="list-style-type: none"> <li>◦ Researches on large-scale structure                             <ul style="list-style-type: none"> <li>- Initial conditions for structure formation</li> <li>- Structure formation in general relativity and modified gravity theories</li> <li>- Precise modeling of large-scale structure</li> </ul> </li> <li>◦ Research group management</li> </ul>	
	<b>Knowledge &amp; Skills requirement</b>	<ul style="list-style-type: none"> <li>◦ Mathematical ability to find and solve problems</li> <li>◦ Knowledge and experience in theoretical cosmology</li> <li>◦ Efficient communication skill</li> </ul>	
	<b>Attitude</b>	<ul style="list-style-type: none"> <li>◦ Motivated for individual and cooperative researches</li> <li>◦ Motivated for collaborations among group members</li> </ul>	
<b>Basic Ability</b>	◦ Problem-solving skill, communication skill, knowledge in computing, collaboration skill		