

Vacancy Announcement

Ethiopian Space Science and Technology Institute (ESSTI) is a newly established institute in Ethiopia to lead Space Science and Technology from end to end research in all space applications, space infrastructure development, satellite development and operation, and international collaboration in Astronomy and Astrophysics, space science and application, satellite technology, Aeronautics and astronautics, earth observation and related space science technologies. Presently, ESSTI is looking for an outstanding candidate with excellent experience and prominent academic, research and technical skills in different fields as mentioned below. Detail requirements listed hereunder in the table.

no	Position:	Requirement	Responsibility	Departments or Directorates	Number of positions
1	Senior Researcher/ Associate professor and above	A PhD in Geodesy, Geodynamics, Geophysics and related areas of earth systems sciences. With strong research track and publications in Global Navigation Satellite System. Education:- space science & technology, Engineering, natural science Experience:- 8 years , in higher education or research institution in teaching and research position on space science and technology with four publications in reputable scientific journals	<ul style="list-style-type: none"> ■ Acquire grant and execute applied and theoretical researches; ■ Teaching graduate courses in geodesy and other relevant programmes; ■ Supervision of graduate theses; ■ Publish research findings in reputable journals; ■ Participate in community service. 	Geodesy and Geodynamics	1
2	Senior Researcher/ Associate professor and above	A PhD in Geodesy, Geodynamics, Geophysics related areas of earth systems sciences. With strong research track and publications in Interferometric Synthetic Aperture Radar. Education:- space science & technology, Engineering, natural science Experience:- 8 years , in higher education or research institution in teaching and research position on space science and technology with four publications in reputable scientific journals	<ul style="list-style-type: none"> ■ Acquire grant and execute applied and theoretical researches; ■ Teaching graduate courses in geodesy and other relevant programmes; ■ Supervision of graduate theses; ■ Publish research findings in reputable journals; ■ Participate in community service. 	Geodesy and Geodynamics	1
3	Associate Researcher III	MSc degree in Geodesy, Geomatics, Geophysics, surveying and related areas of earth systems sciences. With excellent skill in utilizing geodetic equipments such a GNSS receivers, Total Station, optical level for practical field surveying Has good understanding of geodetic sciences and experience in field work and research; Work Experience:- 2 & 4 years respectively in teaching and research at higher education or research institution	<ul style="list-style-type: none"> ■ Acquire research data using GNSS receivers, optical level, Total station, gravity meter, etc; ■ Compile and process data acquired from different geodetic instruments; ■ Assist senior researchers and graduate students in acquisition of in-situ data; ■ Carry out research under supervision of professors; ■ Tutoring graduate courses in geodesy and other relevant programmes; ■ Organize and manage geodetic laboratory and scientific instruments ; ■ Participate in community service. 	Geodesy and Geodynamics	1
4	Senior Researcher/ Associate professor or above	A PhD with academic background and research experience in optical remote sensing, photogrammetry & LiDAR Remote sensing, hyperspectral remote sensing, RADAR remote sensing etc. Education:- space science & technology, Engineering, natural science Experience:- 8 years , in higher education or research institution) research position on space science and technology with four publications in reputable scientific journals	<ul style="list-style-type: none"> ■ Acquire grant and execute demand driven applied and theoretical researches; ■ Teaching graduate courses for PhD and MSc programmes in remote sensing and other relevant programmes; ■ Supervision of graduate theses; ■ Publish results of research in high quality peer-reviewed international journals; ■ Participate in community services, knowledge and technology transfer programs. 	Remote Sensing Research and Development Department	1
5	Researcher/ Assistant professor or above	A PhD with academic background and research experience in optical remote sensing, photogrammetry & LiDAR Remote sensing, hyperspectral remote sensing, RADAR remote sensing etc. Work experience:- 8 years in teaching & research in higher education or research institution Education:- MSc in space science & technology, Engineering, natural science with three publications in reputable journals	<ul style="list-style-type: none"> ➢ Acquire grant and execute demand driven applied and theoretical researches; ➢ Teaching graduate courses for PhD and MSc programmes in remote sensing and other relevant programmes; ➢ Supervision of graduate theses; ➢ Publish results of research in high quality peer-reviewed international journals; ➢ Participate in community services, knowledge and technology transfer programs. 	Remote Sensing Research and Development Department	2
6	Senior researcher /in Observational Astronomy Associate professor or above in	<ul style="list-style-type: none"> ● PhD in observational Astronomy ● Optical Astronomy, and Radio Astronomy, experience in research and Supervision ● Good skill in computational astronomy ● Strong research track Education:- space science & technology, Engineering ,natural science Experience:- 8 years , in teaching and research in higher education or research institution position on space science and technology with four publications in reputable scientific journals	<ul style="list-style-type: none"> ➢ Leading Observational research team nationally ➢ Publishing at least two scientific findings every year in high quality peer-reviewed international journals ➢ Supervising PhD students ➢ Leading potential site testing ➢ Develop fund rising proposal 	Astronomy and Astrophysics Research and development department	1
7	Researcher/ Assistant professor or above in Observational Astronomy	<ul style="list-style-type: none"> ● PhD in observational Astronomy, theoretical Astronomy ● Optical Astronomy, and Radio Astronomy, experience in research and Supervision Strong research track ● Work experience:- 8 years in teaching and research higher education or research institution Education:- MSc in space science & technology, Engineering, natural science with three publications in reputable journals	<ul style="list-style-type: none"> ➢ Acquire grant and execute theoretical and observational researches; ➢ Teaching graduate courses in astronomy and other relevant programmes ➢ Supervising graduate students ➢ Publish research findings in reputable journal ➢ Participate in community services 	Astronomy and Astrophysics Research and development department	1

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8	Researcher or Assistant Professor and above in Theoretical/ Computational Astrophysics	<ul style="list-style-type: none"> • PhD in Theoretical/ Computational Astrophysics. Very good skill in mathematical, theoretical and computational astrophysics • Work experience:- 8 years in teaching and research in higher education or research institution • Education:- MSc in space science & technology, Engineering, natural science with three publications in reputable journals 	<ul style="list-style-type: none"> ▷ Acquire grant and execute theoretical, computational and observational researches; ▷ Publish research findings in reputable journal ▷ Participate in community services 	Astronomy and Astrophysics Research and development department	2
9	Assistant Researcher I /engineer/ Instrumentation	<ul style="list-style-type: none"> • Excellent background in astrophysics and space instrument, telescope design, payload, optics, camera, etc... • Education:- BSc, Msc degree space science & technology, Engineering, natural science, material science, engineering • Work experience:- 2 & 1 years respectively 	<ul style="list-style-type: none"> ▷ Leading design and manufacture of space instrumentations such as payload, telescopes, cameras, space exploration instruments, etc 	Astronomy and Astrophysics Research and development department	1
10	Researcher/ Assistant professor or above	<ul style="list-style-type: none"> • A PhD in Aerospace Engineering, Satellite Engineering, Aeronautical engineering, mechanical engineering, mechanical design engineering, Electrical engineering, Aerospace thermal engineering material engineering or related fields. • With research/teaching/ industry experience in above fields • Work experience:- 8 years in teaching and research at higher education or research institution • Education:- MSc in space science & technology, Engineering, natural science with three publications in reputable journals 	<ul style="list-style-type: none"> ▷ Acquire grant and execute demand driven applied and theoretical researches; ▷ Teaching graduate courses for PhD and MSc programmes in Aeronautical, Space engineering, satellite engineering and other relevant programmes; ▷ Supervision of graduate thesis; ▷ Publish results of research in high quality peer-reviewed international journals; ▷ Participate in community services, knowledge and technology transfer programs. ▷ Design, manufacture, assemble, integrate and test aerospace products 	Space Engineering Directorate	3
11	Associate Researcher- I	<ul style="list-style-type: none"> • MSc. degree in Satellite Engineering, Aeronautical engineering, mechanical engineering, mechanical design engineering, Electrical engineering, Aerospace thermal engineering material engineering or related fields engineering/ technology • With excellent skill and research experience in the above-mentioned fields • Work Experience:- 2 years in teaching and research at higher education or research institution 	<ul style="list-style-type: none"> ▷ Design, manufacture, assemble, integrate and test Aerospace products ▷ Doing research in the aerospace and related fields and purplish the research results ▷ Assist higher researchers in laboratory, data gathering, tutoring graduate courses and other research and teaching activities. ▷ Participate in community services, knowledge and technology transfer programs 	Space Engineering Directorate	2
12	Associate Researcher II	<ul style="list-style-type: none"> • MSc degree in Aeronautical Engineering, Satellite Engineering, aerospace engineering, mechanical design engineering, electrical engineering, Aerospace thermal engineering and other related field technology/ engineering. • With excellent skill in satellite, aeronautical, space engineering/ technology • Has good understanding of Aerospace engineering/ technology/ and experience in research; • Work Experience:- 4 years in teaching and research at higher education or research institution 	<ul style="list-style-type: none"> ▷ Assist senior researchers and graduate students in the development of Aerospace engineering and technology products; ▷ Carry out research under supervision of Associate researchers and above; ▷ Design, manufacture, assemble, integrate and test aerospace products ▷ Assist researchers in laboratory work, data gathering and other research and teaching activities ▷ Participate in community-service and technology transfer programs. 	Space Engineering Directorate	1
13	Associate Researcher I/II	<ul style="list-style-type: none"> • M.Sc. and above in Software Engineering, Computer Science, Computer Engineering, Data Science, Computer Networking, and Computer Science and Engineering program specialized in Algorithm and Computation and systems and networks • B.Sc. in Computer Science, software engineering • Work Experience:- 2 & 4 years respectively in teaching and research at higher education or research institution 	<ul style="list-style-type: none"> ▷ To develop and customize algorithm to process and analyze high volume of data using high performance computer ▷ To develop, design and implement software and automate system ▷ Clustering high performance computer ▷ To conduct research on Big data analysis algorithm and high computing ▷ To develop and design research data archiving and provide accessing system • Professional skills ▷ Experienced in Linux administration, python scripting and Fortran ▷ Experienced in big data algorithm development and computation ▷ Experienced in high level machine language ▷ Intermediate programing language experience in C++, web application and Java 	High computing, ICT and data Administration Directorate	3
14	Researcher / Assistant professor or above	<ul style="list-style-type: none"> • MSc and above in Satellite Communications Engineering, mechanical, electrical, electronics engineering, Satellite Systems Engineering Or other relevant fields of study with • Work experience:- 8 years in teaching and research in higher education or research institution • Education:- MSc in space science & technology, Engineering, natural science with three publications in reputable journals 	<ul style="list-style-type: none"> ▷ Conduct researches in the design and development of small to medium satellite systems ▷ Support to platform subsystems, payload instruments, on-board software management, satellite simulator and ground segment operations ▷ Provide inputs and review the definition of system and satellite operational concepts ▷ Space to ground communications ▷ Support to the commissioning of new satellites and routine operations ▷ Troubleshoot in orbit satellite system failures 	Satellite Operation Research and development directorate	3
15	Associate Researcher I/II	<ul style="list-style-type: none"> • MSc in Electronic and above in Communications Engineering, Telecommunications Engineering, Microwave Engineering, Wireless Engineering or other relevant fields of study with • Work Experience:- 2 & 4 years respectively in teaching and research at higher education or research institution 	<ul style="list-style-type: none"> ▷ Satellite application systems and interface to terrestrial ground communication networks. ▷ Satellite ground station operation, satellite data access, interpretation and analysis. ▷ Conduct researches and Optimize satellite communication systems 	Satellite Operation Research and development directorate	3

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16	Researcher / Assistant Professor or above	<ul style="list-style-type: none"> • A PhD with academic background and research experience in Space and Application, Space physic, Space instrumentation, Space Technology, Ionospheric Physics, Space Communication, Space Radar, Atmosphere & Atmospheric Physics, Atmospheric remote sensing, climate physics, Space engineering and related areas of Space and Application with strong research track and • Strong experience in Ionosphere, Solar system, Space Weather, Space Technology and Radar, Solar Geomagnetic Storm, Atmosphere and Atmospheric Science, and Space data Processing. • Excellent to operate and use Magnetometer, Ionosonde, Space GPS, HF and VHF, Optical space devices, sensors Space and Atmospheric radars <p>Work experience:- 8 years in teaching and research at higher education or research institution Education:- MSc in space science & technology, Engineering, natural science with three publications in reputable journals</p>	<ul style="list-style-type: none"> • Acquire grant and execute demand driven applied and theoretical researches; • Teaching graduate courses for PhD and MSc programs in Space Science, atmospheric Science and other relevant programs; • Supervision of graduate students theses; • Publish results of research in high quality peer-reviewed international journals; • Participate in community services, knowledge and technology transfer programs. 	Space Science and Application	4
17	Associate Researcher I/II	<p>MSc in Engineering, Space Science, space policy or other relevant fields of study</p> <p>Work Experience:- 2 & 4 years respectively in teaching and research at higher education or research institution</p>	Inspect, control, register, & licensing of space equipments	Space Affair Inspection, Registration, Licensing Control	1

Note:

1. Salary is according to ESSTI's scale
 2. All applicants must submit photo copy of all the academic credential documents to ESSTI office within 15 working days (such as all transcripts, Degree Certificate, CV, list of Publications, at list two recommendations from academic supervisor/s/ etc).
 3. For MSC applicants minimum undergraduate CGPA should be 2.75 and MSc CGPA 3.50 and above
 4. support letter from your institution or university
 5. Submit application to Ethiopian Space Science and Technology Institute in person.
- Telephone: + 251118720300/118961050

F.D.R.E MINISTRY OF SCIENCE AND TECHNOLOGY
ETHIOPIAN SPACE SCIENCE AND TECHNOLOGY INSTITUTE (ESSTI)