INSTITUTION OF EMINENCE (IoE) CALL FOR APPLICATIONS FOR POST-DOCTORAL FELLOWSHIP (IOE - PDF)

The *IoE- Post-doctoral fellowship (IoE-PDF)* scheme is aimed at attracting motivated young researchers from across the country and abroad, and provide them with the *infrastructure and financial support to engage in creative, high-quality work in their discipline / area of interest*. The fellow will work under a faculty-mentor from an academic unit of the University. The training will provide them with a *platform to grow as an independent researcher and potential faculty member of high-quality*. In addition to research, a fellow may be assigned teaching responsibilities, depending on their interest, to support and complement ongoing and / or initiate new programs in the respective academic unit as per the mandate of IoE.

School of Computer and Information Sciences (SCIS) Invites applications from eligible candidates for the IoE-Post Doctoral Fellowship (IOE-PDF).

Essential Qualifications:

1. PhD in Computer Science and other related disciplines or must have submitted their PhD thesis and are awaiting award of the degree.

Desirable Qualifications:

1. 2 papers published in refereed international journals (SCOPUS/WoS indexed) or CORE Ranked conferences http://portal.core.edu.au/conf-ranks/
2. The candidate should possess strong research track record with good publications where he is the first or corresponding author.

Final selection will be based on an in-person interview of shortlisted candidates, which they have to attend at their own expenses. No TA/DA will be paid for attending the interview or at the time of joining.

Hybrid mode interviews are also possible for candidates with due reasons, provided the candidate notifies about it well in advance.

Total Vacancies: 15 (UR=5; EWS=2; OBC=4; SC=3; ST=1)

It may be noted that merely satisfying the minimum eligible conditions does not guarantee short-listing or selection. The university reserves the right to fill as many vacancies as it decides (i.e. not all vacancies may be filled).

Shortlisting of the candidates will be based on:

1. A matching of the research interests between candidates and faculty members whose specific areas of interest are mentioned below in the table. Each candidate must get consent from at least one faculty to mentor/host the candidate. A faculty member might preferably

give consent to a maximum of three candidates. **Note:** A faculty member cannot host more than one PDF.

2. Consenting faculty member should ensure that he/she has sufficient infrastructure/facilities to achieve the objectives of the research program. Lab space and appropriate seating space is a minimum requirement. Ideally computational resources might also be available. Dean reserves right to assign seating space and locations for the selected candidates.
3. The candidate should possess strong research track record with good publications where he is the first or corresponding author.
4. Experience: Number of years relevant to the research program.

SCIS Website: https://scis.uohyd.ac.in/

Sl.No.	Name of School	Name of Faculty member and contact email address	Areas of research/Interest	Any specific research topic of interest? / Broad description of study to be taken by the scholar
1	SCIS	Dr. Satish Narayana Srirama satish.srirama@uohyd.ac.in	Cloud computing, distributed computing, Internet of Things, fog computing, federated learning and large-scale data analytics on the cloud	My current research focuses on cloud computing (scalability/fault tolerance, serverless computing, dynamic deployment with solutions such OASIS TOSCA, Kubernetes etc.), mobile cloud, Internet of Things, fog computing (developing simulators, mobility aspects, scheduling & placement strategies, etc.), distributed data processing on edge-fog-cloud continuum (edge analytics, federated learning, including data pipelines) and large-scale data analytics on the cloud (algorithms and working with distributed frameworks such as Apache Hadoop, Spark, Flink etc.). The list is not exhaustive, and I am interested in any concrete research you would like to perform, in and around these topics. Interested candidates should approach me first on satish.srirama@uohyd.ac.in along with a two-page report describing the research challenges you would like to address during the Postdoc period, along with a detailed methodology.
2	SCIS	Anjeneya Swami Kare askcs@uohyd.ac.in	Graph Algorithms and Social Network Analysis	Influence Maximization and Rumor minimization is Social Networks
3	SCIS	Dr Digambar Pawar dpr@uohyd.ac.in	Image/Video forgery detection and segmentation	Face forgery detection methods, frequently encounter and perform poorly in unseen domains in real-world applications. Also, detecting deep fake forgeries in videos is not an easy task. From digital forensics perspective, Image/Video forgery detection has a very important role in helping multimedia forensic investigator. In this study, DeepFake forgery detection and localization in Images and/or Videos will be carried out.
4	SCIS	Prof. Siba Kumar Udgata udgata@uohyd.ac.in	Wireless Sensor Network, IoT, Wireless Communication, Machine Learning	The scholar is expected to work on device free wireless sensing of non-intrusive nature. It requires knowledge of sensor network, wireless communication, signal intelligence and machine learning. The scholar is expected to work on high volume of streaming data using high performance computing system and also the embedded devices.

5	SCIS	Dr. Avatharam Ganivada avatharg@uohyd.ac.in	Rough neuro computing and applications of computer vision	Fuzzy neuro computing tools for moving object detection in videos
6	SCIS	Dr. M A Saifulla saifullah@uohyd.ac.in	Software Defined Networking, Named Data Networking, Network Traffic Analysis, Network Management, Data Center Products	Network management for named data networking and hybrid networks
7	SCIS	S. Durga Bhavani sdbcs@uohyd.ernet.in	Social Network Analysis	Community detection in large scale biological networks that are bipartite or heterogeneous networks where the nodes and edges may be of different types is of great interest. Huge number of algorithms are available for community detection in unipartite networks. Proposing scalable algorithms for bipartite and heterogeneous networks is an objective. It will also be interesting to tackle heterogeneous networks from the point of view of network representation in order to utilize the framework of graph neural networks in the deep learning paradigm.
8	SCIS	T Sobha Rani sobharani@uohyd.ac.in	Bioinformatics+ machine learning	Disease network construction and analysis
9	SCIS	Prof. Alok Singh alok@uohyd.ac.in	Metaheuristic Techniques	Application of Metaheuristic Techniques in Manufacturing and Logistics
10	SCIS	Prof. Atul Negi atul.negi@uohyd.ac.in	Novel methods of Semi Supervised Classification	The Scholar must have a background in Machine Learning and Deep Learning, Pattern Classification and such related topics. The Scholar is to bring out new algorithms and approaches to classify poorly labelled data sets or to boot strap classification and discover class structures in data sets from Hyper Spetral Images and other high dimensional data sets. Methods might also be applicable to Health domain. Methods might also involve distributed machine learning or federated learning for very large data sets.
11	SCIS	Prof. Rajeev Wankar wankarcs@uohyd.ac.in	Cloud Computing	Serverless computing, Kubernetes load balancing

ELIGIBILITY AND OTHER CONDITIONS

1. Candidates from UGC recognized (public or private) institutions or institutions of national importance or from international institutions (NRI/PIO/ Foreign nationals) with degree awarded not more than three years prior to the date of announcement of this call for

applications. In the case of Indian nationals, a relaxation of two years will be provided to candidates belonging to OBC/EWS/SC/ST/Women/PwD categories, i.e the PhD should have been awarded not more than Five years from the date of announcement of this call for applications.

2. Candidates from UGC recognized (public or private) institutions or institutions of national importance or international institutions who have submitted their PhD and are awaiting award of the degree are eligible to apply upon submission of Provisional Certificate can also apply.
3. Applicants already in regular service are not eligible to apply.
4. Faculty members are not permitted to host/mentor SCIS students they have supervised or co-supervised for PhD as IOE-Post Doctoral Fellows.
5. The upper age limit for the fellowship is 32 years (at the time of the submission of application) and age relaxation of up to 3 (three) years will be given to candidates belonging to SC / ST / OBC (Non-Creamy Layer) / Women / PWD / EWS candidates (i.e. 35 years as the upper age limit).
6. The IOE-PDF is a purely temporary assignment, and is tenable for a period of one year from the date of appointment, renewable up to maximum of three years OR the end of IOE project, whichever is earlier. Candidates will not be eligible to claim this experience for any permanent position at the University of Hyderabad.
7. Extension beyond the one year tenure will be subject to availability of funds and review of performance. There will be rigorous assessment of yearly progress for the renewal of the Fellowship and is NOT automatic.
8. Notwithstanding any of the above-mentioned conditions, the tenure of all appointments will be co-terminus with the tenure of the IOE programme at the University of Hyderabad (which is currently 31/3/2024).
9. Arbitration of issues will be with University University authorities such as Dean SCIS, IOE Directorate and other competent authorities.

FELLOWSHIP: Rs. 55,000/- per month (consolidated) and Rs. 35,000 per month for candidates who have submitted the thesis and are awaiting award of degree.

RESEARCH GRANT: Rs. 50,000/- per annum is the grant eligible for selected IOE-PDFs. The grant can be used for consumables, contingencies, and domestic travel-for attending conferences / research meetings / symposia). Purchase of items such as minor equipment, laptops, tablets, furniture or any other form of asset are not permitted.

The IOE-PDFs are not eligible to receive any other fellowship from any Government or non-Governmental source during the tenure of the fellowship. If availing any other fellowship / remuneration, s/he will have to resign from the same before accepting the IOE-PDF at UoH. \

Deadline for applications: 30-04-2023

Government of India rules on reservation policy will be strictly followed in selections.
The University reserves the right to reject all or any of the applications or cancel the call for applications without assigning any reason thereof.

Candidates should fill the following application and email it to ***deanscis@uohyd.ac.in***

- In addition to producing the endorsement letter from the mentor, please also ensure that the ***consent to mentoring is also communicated to the dean by email by the respective faculty.***
- **Please limit the detailed research proposal to a maximum of 10 pages.**

In addition to email, please **post the filled application** to following address with marking as IOE-PDF application:

Dean, School of Computer and Information Sciences, University of Hyderabad, Gachibowli, Hyderabad, Telangana 500046, India.

Note: Please produce proof that it is posted before the deadline 30-4-2023.

IOE - PDF APPLICATION FORM-

NAME OF SCHOOL/DEPARTMENT/CENTRE.....

Please fill the application form along with all required documents and submit by email to: .....@uohyd.ac.in).
This form along with annexures maybe converted into a single pdf file and sent by email to the contact address:

APPLICANTS PERSONAL DETAILS	
NAME	
GENDER	
DATE OF BIRTH AND AGE	
NATIONALITY / SOCIAL STATUS / CATEGORY	
PERMANENT ADDRESS	
ADDRESS FOR CORRESPONDENCE	
APPLICANTS PROFESSIONAL DETAILS	
DETAILS OF QUALIFICATIONS (IN REVERSE CRONOLOGY). INCLUDE NAME OF THE DEGREE, YEAR OF PASSING, CLASS/DIVISION OBTAINED AND NAME OF THE UNIVERSITY .	**COPIES OF CERTIFICATES ARE TO BE ATTACHED AS ANNEXURE**

SUMMARY OF PHD WORK (SYNOPSIS OF THESIS)	**ATTACH AS ANNEXURE**
AREA OF SPECIALIZATIONS	
DETAILED CV WITH PREVIOUS POST DOCTORAL EXPERIENCE, IF ANY, LIST OF PUBLICATIONS, IF ANY AND NAMES OF THREE REFEREES (ENCLOSE A MAXIMUM OF 3 REPRINTS)	**ATTACH AS ANNEXURE**
SUMMARY OF YOUR RESEARCH EXPERIENCE AND SKILL SETS	**ATTACH AS ANNEXURE**
APPLICANTS PROPOSED RESEARCH ACTIVITY	
DETAILS OF RESEARCH PROPOSAL WITH CLEAR OBJECTIVES, DELIVERABLES & MILESTONES ETC	**ATTACH AS ANNEXURE**
NAME AND AFFILIATION OF OF FACULTY MEMBER WHO HAS AGREED TO MENTOR THE APPLICANT	ATTACH ENDORSEMENT LETTER FROM THE MENTOR

I/WE STATE THAT THE APPLICATION IS COMPLETE IN ALL RESPECTS AND ALL INFORMATION IS CORRECT. I/WE UNDERTSAND THAT IF ANY OF THE INFORMATION PROVIDED IS FOUND TO BE FALSE, THE FELLOWSHIP WILL BE TERMINATED IMMEDIATELY AND THE APPLICANT WILL BE LIABLE TO REFUND THE FELLOWSHIP RECEIVED.

Name and signature of the applicant: Signature/date

Name of faculty mentor (if relevant): Signature/ date

(Digital signature is acceptable in advance)

Project Proposal format:

a) Title of the Research Proposal _____
b) Name and Affiliation of Faculty mentor (if endorsement received)
c) Abstract (maximum 300 words).
d) Introduction
e) Origin of proposal
f) National and International status
g) Hypothesis/ Detailed Methodology
h) Expected outcome such as new inventions/discoveries, publishing quality papers/articles, book/book chapters, and others (200 words).
i) Previous Research experience highlighting achievements, if any.