Expression of Interest (EoI)

For Research in the field of

Prevention & Control of Cybercrime against women & children

Ministry of Home Affairs invites EoI for setting up of Centers of Excellence

INTRODUCTION

Cyber space is a complex environment consisting of interactions between people, software and services, supported by World Wide distribution of Information and Communication Technology (ICT) devices and networks. The cyber space is anticipated to be more complex in the near future, with manifold increase in network and devices connected to it. As per data maintained by the National Crime Records Bureau (NCRB), cases registered under IT Act have increased from 1719 in 2011 to 8613 in 2016, i.e. an increase of about 400%. With growing use of social media, dark web, P2P communication and encryption technologies, crime against women & children are also increasing, be it child pornography, rape/gang rape videos, other obscene content, fake social media profiles, Identity frauds, sex chat rooms, luring of children & women for exploitation etc. To tackle these emerging challenges, use of technology and innovative solutions are needed to proactively identify such obscene content, analyze social media and take pre-emptive actions to curb cyber crime. There is need for greater thrust and emphasis on research & development of Artificial Intelligence (AI)/Deep Learning (DL)/Machine Learning (ML) based techniques, crawler technologies, big data analysis, social media analysis etc. which could be useful in prevention and control of cybercrime against women and children.

2. Ministry of Home Affairs is implementing a scheme titled 'Cyber Crime Prevention against women &Children' under which it intends to develop partnership with reputed Academic institutions and R&D institutes for taking up research in the field of cybercrime prevention & control technologies. These institutions will help MHA to achieve the following objectives;

➤ Foster the development of advance Cybercrime monitoring, protection from possible cybercrime and electronic investigation tools and techniques
➤ Foster strategic partnerships between the Center's researchers and industry, Government laboratories and academic institutions.
➤ Develop standards and codes of practice for Cybercrime investigation and prevention.
➤ Strengthen research in cyber law and share case studies among practitioners in the field
➤ Undertake research on Cyber Criminology, such as criminal's behavioural and motivational aspects in cyber space.
➤ Developing advance analytic methods and technologies for better correlations information on cybercrimes and cybercrime predictions, forecast and trends.

➤ Developing standards and techniques for information exchange and sharing, with advance level cyber information observables, indicators and expressions.

➤ Developing advance techniques and policies to ensure and enforce cyber hygiene.

3. KEY FEATURES

3.1 Scheme Duration: Two years. However, the partnership may continue as part of other schemes of MHA.

3.2 Indicative Grant: Maximum Rs 5 Crore per Institution. Actual Grant will depend on the justification of proposal.

3.3 Expression of Interest (~6 page)

Any Academic Institute of national importance as identified by MHRD, R&D Institutes of GoI and State governments are welcome to submit EoI to Ministry of Home Affairs, which includes the parameters like;

3.3.1 About the applicant(~1 page)

Brief background of the applicant organization, research underway or already undertaken, website details for further information and contact details of designated person to coordinate with MHA

3.3.2 Executive summary (~1 page)

At the beginning of this section, clearly state in 2-3 sentences, the essence of area of proposed research. The summary should indicate,what is the specific problem that the CoE seeks to address, the approach proposed to solve this problem, and why the project is innovative, and what is the expected impact of the project at the end of the grant period.

3.3.3 Goals (~1 page)

Describe the specific goals of the project and how they are responsive to the objectives of the CCPWC scheme. Indicate the specific problem that the project seeks to address and explain why the proposed solution is unconventional or creative and why it improves upon the best existing alternatives. Indicate the expected results of the project at the end of the grant period. Briefly indicate what the next steps might be and how the project's results could lead to further progress and innovation.

3.3.4 Approach (~1.5 page)

Identify the major objectives of the project that will be pursued to reach the project's goals. Summarize the research activities for each objective. Indicate how the research activities for individual objectives will be judged successful and highlight important

research milestones that will be used to track progress.

3.3.5 Capabilities (~1/2 page)

Summarize how the expertise and experience of the investigators and their organizations will help in achieving the goals of the project. Describe the resources and facilities available for conducting the proposed research.

3.3.6 Collaboration (~1/2 page)

If relevant, indicate the role in the project of collaboration with other individuals and organizations, including experience, resources, and facilities these collaborations would bring to the proposed research.

3.3.7 Budget (~1/2 page)

Describe how the proposed work will be performed within the budget allocated, including a summary of the budget that will be allotted to each research objective for each year of the project.

3.3.8 Details of Key Researchers

4. WHO CAN APPLY?
1. Only Research institutions, Academic Institutions of National importance as identified by MHRD, Autonomous R&D institutions of GoI and State Governments working in the field of cyber security shall apply.
2. If applicant organization is already a Centre of Excellence in cyber research and receiving grant from any government source, the same may be clearly stated in the EoI. MHA reserves the right to consider such EoIs.

5. HOW TO APPLY?
1. EoI for the Center of Excellence is required to be submitted in softcopy only. To submit a proposal, please send e-mail at uscis2.pmu-mha@gov.in
2. No Hard Copy to be submitted.
3. The call for EoIs will remain open till **20th March 2018.**

6. FOR FURTHER INFORMATION PLEASE CONTACT BELOW MENTIONED:

S K Bhalla
Director (CIS-II)
Email: dircis2-mha@nic.in
Tel: +91-11-23093486