

Position

FTR – Technology Researcher (Forward Looking Threat Research)

Job Description:

Trend Micro's Forward Looking Threat Research team (FTR) is a global team of Senior Researchers tasked with scouting the likely future security risks by researching what:

- Cybercriminals are working on today (Underground and Deepweb, Targeted Attacks / APT and Malware research)
- How the users / victims are using emerging technologies (social networks, shared economy, wireless networks, etc)
- What technologies are available now and in the future (e.g. (I)IOT/OT, Augmented Reality, Mobile computing, Automotive/Mobility, Telecommunication, Cryptocurrencies).

Past technology-related researches include

SDR topics

[Threats at Sea: A Security Evaluation of AIS](#)

[Attacks Against Industrial Machines via Vulnerable Radio Remote Controllers](#)

[LoRaWAN's Protocol Stacks: The Forgotten Targets at Risk](#)

Automotive topics

[Is Your Car Broadcasting Too Much Information](#)

[Connected Car Vulnerabilities Affect the CAN Standard](#)

[A Roadmap to Secure Connected Cars](#)

and a variety of **I/IOT/OT/Manufacturing topics**

[Rogue Robots - Testing the Limits of an Industrial Robot's Security](#)

[Rogue Automation Vulnerable and Malicious Code in Industrial Programming](#)

[Lost in Translation – When Industrial Protocol Translation goes Wrong](#)

[The Transition to 5G: Security Implications of Campus Networks](#)

Note that the (primary) goal of our research is **not** to hunt for vulnerabilities, but demonstrating/showcasing (real-world) business impacts/risks to OT/I/IOT operation, cybercrime business models, and coming up with (product) ideas/proposal to mitigate those risks.

This role will best suit people with a strong interest in (non-PC) technologies, a curiosity in various implementations and uses cases of such technologies, and a passion to make sure those technologies are implemented in a safe and secure manner.

This position requires the researcher to represent Trend Micro at external conferences (in-person/hybrid/virtual), either as an attendee or as a speaker.

As the team is globally distributed the successful candidate must be willing to travel regularly for global meetings and conferences (post-Covid-19).

For many years, the FTR team is a trusted partner for Law Enforcement (Interpol, Europol, FBI, NCA, and others) and FTR members are regular speakers at major security conferences like e.g. BlackHat, FIRST, HITB or RSA.



ROLE SPECIFICATION

Trend Micro, a global cybersecurity leader, helps make the world safe for exchanging digital information, is in business since 30+ years.

Some of FTR externally published work can be found at:

<http://us.trendmicro.com/us/trendwatch/research-and-analysis/white-papers-and-articles/index.html>

Desired Experiences & Skills:

- Hacker mentality: ability to quickly identify security weaknesses in design, architecture, process and implementation.
- Bachelor's degree or higher in Computer Science, Electronics Engineering, Communication Engineering, Computer Engineering, Physics, or related discipline; strong self-taught, proven skillset and extensive work experience can substitute in lieu of degree.
- Come up with potential cybercrime business models / attack models (in non-PC environments)
- Fast learner as (technology) research topics may change over time or completely new topics may come up
- Self-motivated and able to work unsupervised
- Background in programming and scripting languages would be a plus
- Creative thinker and problem solver
- Ability to work in a rapid development / dev-ops style
- Able to work in a multi-cultural group
- Very good communication skills
- Must be fluent in English
- Experiences in creating videos and podcasts would be a plus