## IMPROVING SOC EFFICIENCY THROUGH ANTHROPOLOGY:

A security operation center (SOC) is a workplace where security analysts work to handle the various types of tasks/events related to the security status of an organization's information technology infrastructure.

- Core Proplems
  - Low efficiency of SOC operation, lack of transparency into incident handling processes
  - Shortage of workforce and lack of systematic training for SOC analysts, made worse by the high turn-over and stressful working conditions
  - Commercially available tools not addressing operational needs
- Goals of Research
  - Make the "tribal knowledge" of SOCs explicit and shareable, by embedding researchers with SOC analysts.
  - Use fieldwork to discover workflow fieldworkers co-build tools with SOC staff to improve its efficiency.
  - Compare recurrent patterns across multiple SOCs to separate intrinsic from incidental problems
  - A training manual for organizations that employ SOC personnel in corporate, academia, and governmental agencies.
- The Research Team Provides
  - Training for individuals in the host organization on fieldwork methods, OR Interns trained in security and anthropology to conduct fieldwork
- Collaborators Provide
  - Appropriate access for intern(s) or fieldworker(s) to SOC and SOC staff
  - Workflow and role descriptions
  - (Optional) financial support for the fieldworker
- Benefits for Collaborators
  - Third-party perspectives on SOC effectiveness
  - Tools fieldworkers build together with analysts specifically for the collaborating SOC
  - Framing and prioritization of issues to be addressed in the training manual as well as early access to learning
  - Opportunity to seek joint funding for further research

## If interested, please contact soc-collaboration@arguslab.org



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