CRYPTOGRAPHER/CRYPTANALYST
AKA ENCRYPTION EXPERT

DEGREE REQUIRED?
Yes
Master’s Degree
Focusing on Mathematics or Computer Science is Encouraged

MEDIAN SALARY
+$100,000

JOB GROWTH
21%

COMMON JOB DUTIES

Protect important information from interception, copying, modification and/or deletion

Evaluate, analyze and target weaknesses in cryptographic security systems and algorithms

Design robust security systems to prevent vulnerabilities

Develop statistical and mathematical models to analyze data and solve security problems

Test computational models for reliability and accuracy

Investigate, research and test new cryptology theories and applications

Probe for weaknesses in communication lines (e.g. wireless network, secure telephone, cellphones, email, etc.)

Ensure message transmission data (e.g. wireless network, secure telephone, cellphones, email, etc.) are not illegally accessed or altered in transit

Decode cryptic messages and coding systems for military, political and/or law enforcement agencies

SOFT SKILLS
Intelligent, Analytical & Creative
Capable of Tackling Complex Mathematical Problems
Trustworthiness
FIND YOUR PATH TO CYBER

CYBER.ORG offers grant-funded cyber curricula, professional development, and career resources.

Our goal is to empower educators and grow the cyber workforce of tomorrow.