THE BEAUTIFUL SCIF

SCIF Design & Innovations

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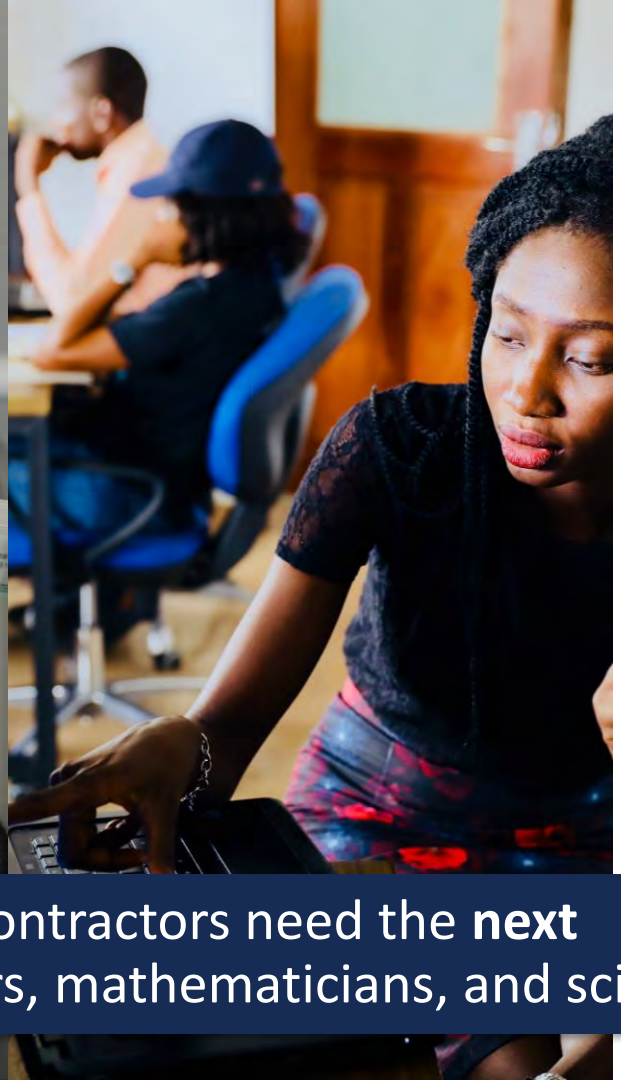
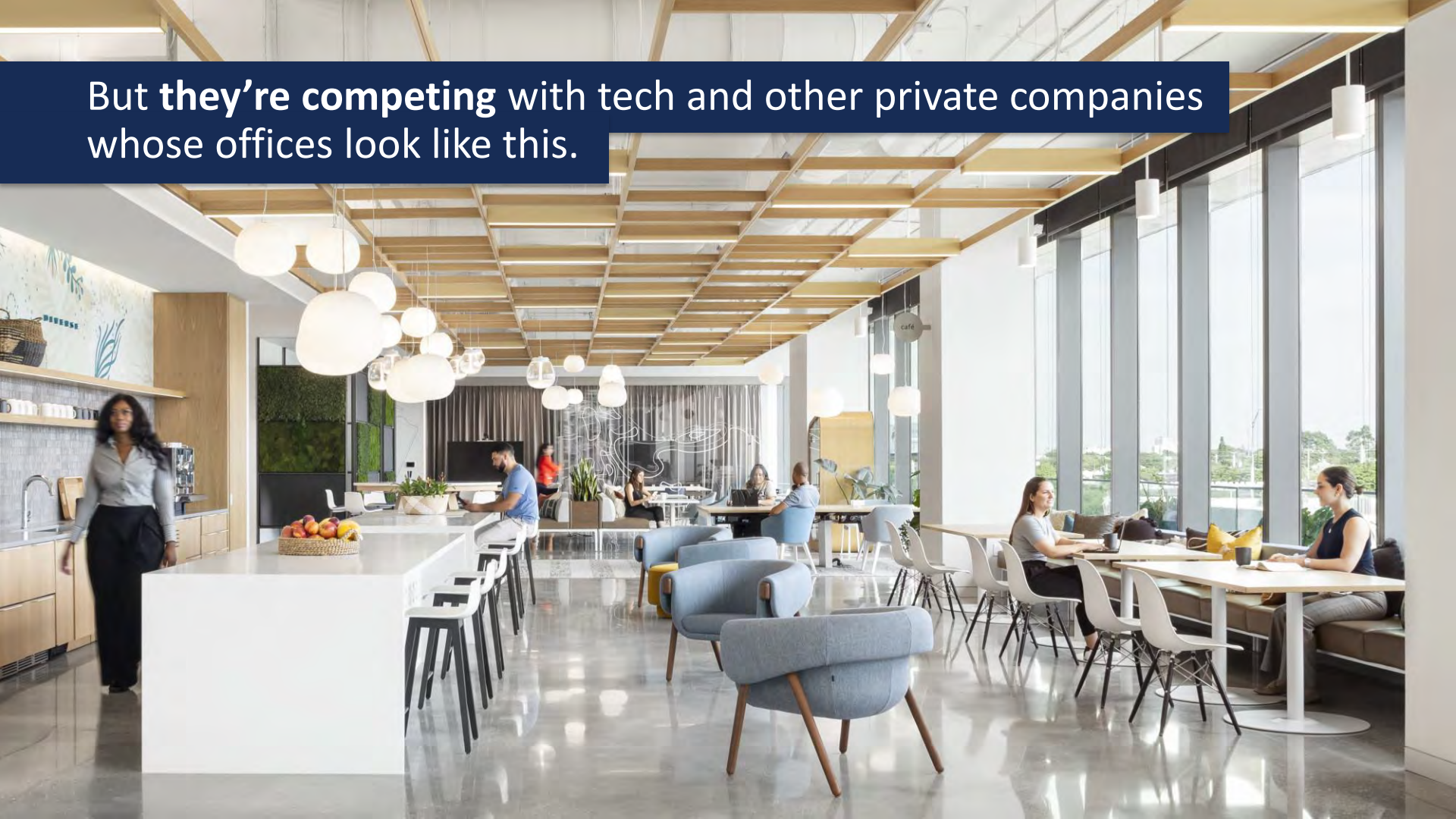


The government and contractors need the **next generation** of engineers, mathematicians, and scientists.

But **they're competing** with tech and other private companies whose offices look like this.

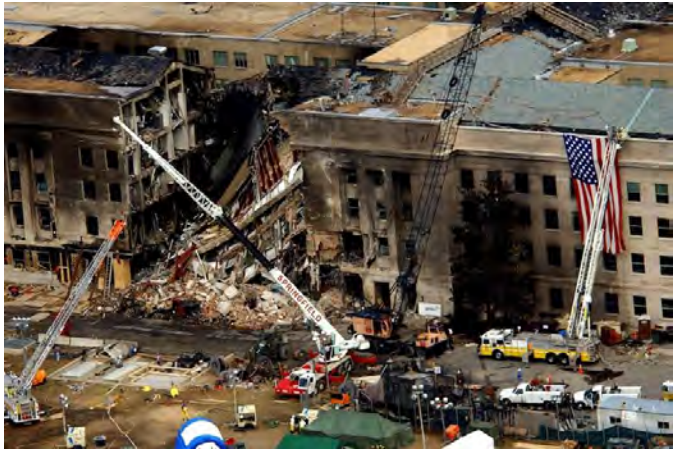


While SCIFs (Sensitive Compartmented Information Facilities) **look more like this.**

Can we create a secure workplace that also **attracts talent** and **supports the world's new ways** of working and collaborating?

WHAT IS A SCIF?

- Secure spaces in which we protect, create and discuss sensitive information have a long history
- WWII, the Cold War and 9/11 have changed their design
- Threats from rouge nations, cyber, corporate espionage and terrorism have created a growing need for secure workspace
- Changing demographics in the secure workforce is changing the SCIF today



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LinkedIn

Improving the Employee Experience in Secured Work Spaces

Published on May 21, 2021

FEDSCOOP

TECH

It's time to rethink how we handle, view, and work with classified info post-pandemic

ClearanceJobs

ClearanceJobs / News & Career Advice

Will The Cleared Workforce in a Post-Covid World Find Shared SCIF Spaces?

Jillian Hamilton / Sep 17, 2020

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SCIF Design Considerations

Certification

Security

Active Workplace Design

Flexibility

Sustainability

Universal Design

SCIF CERTIFICATION

- What is involved?
- Is the paperwork (DD254) in order?
- The Accrediting Officer (AO) is often remote from the design team
- Define the requirements. ICD-705 has options
- Importance of a mock-up(s)
- All the requirements will be tested and confirmed by the AO. Pretesting is a good way of ensuring a smooth certification

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SCIF CERTIFICATION

Government Accrediting Official (AO) verifies that all the required high-security features of the SCIF have been installed according to what was preapproved in the design and pre-construction documents. They are independent from the Designer and Builder.

The Agency User Group needs to be involved in the dialogue. Inspections, monitoring and testing is critical.


SECURITY

SECURITY

- IT cyber security
- Entry security / Biometrics
- Access control / CCTV
- Window shading
- Screen orientation
- Interior primary vs secondary entries
- Doors

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SECURITY

- Humanized entry points
- Reduced visual appearance of security devices
- Proper setbacks / standoffs for more design freedom
- Physical security
- RF shielding
- Acoustics / sound masking
- Security during construction

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ACTIVE WORKPLACE DESIGN

ACTIVE WORKPLACE DESIGN

Designing workspaces that **optimize movement and mobility.**

- Design features and planning that encourage movement
- Create experiences for users of alternative forms of transportation
- Diverse workspaces to encourage movement between environments
- Promote wellness and resilience
- Furnishings that allow choice of movement

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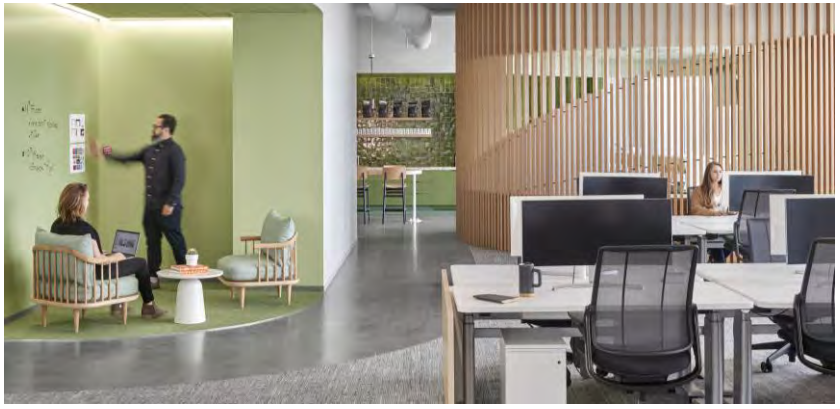
FLEXIBILITY

FLEXIBILITY

- Design for greater diversity of spaces
- Enhancing connectivity through technology
- Flexible work policies: WFH and WFO
- Spaces for the different work modes are melding together



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SUSTAINABILITY

SUSTAINABILITY

- EUI / energy consumption
- Energy modeling
- Lighting power density
- Renewables
- Carbon reduction
- VOC / air quality

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UNIVERSAL DESIGN

UNIVERSAL DESIGN

Universal Design includes **designing for all people,** meeting needs related to gender identity, race, ability, age, socioeconomic status, and culture, and is considerate of the ways in which these needs may intersect.

These are the Principles created when the phrase Universal Design was coined.

Principle 1: Equitable Use.
Principle 2: Flexibility in Use.
Principle 3: Simple and Intuitive Use.
Principle 4: Perceptible Information.
Principle 5: Tolerance for Error.
Principle 6: Low Physical Effort.
Principle 7: Size and Space for Approach and Use.

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UNIVERSAL DESIGN

The Design Goals listed below expand the definition of the principles of universal design to include social participation and health and wellness

Inclusive Design Goals:

- Body Fit
- Comfort
- Awareness
- Understanding
- Empathy
- Wellness
- Social Integration
- Personalization
- Cultural Appropriateness

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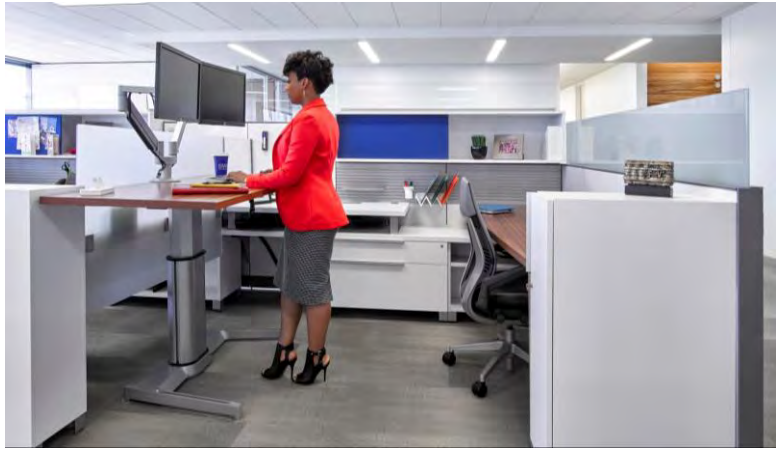
SCIF Innovation / Solutions

- Workspace Innovation
- Technology
- Connectivity to Outside World
- Lighting
- Biophilia
- Educational Interface
- Classified vs. Unclassified
- Access to Food Service
- Access to Fitness
- On-Demand SCIF

WORKSPACE INNOVATION

WORKSPACE INNOVATION

- Differing work styles
- Sit-stand workstations
- Desktops for Multiple monitors
- Impromptu Meeting Spaces
- Meeting spaces near workstations
- Small huddle spaces strategically placed
- Break Room Interactions



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TECHNOLOGY


Carolyn Caldwell
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Stefan Carlson
Eric Cassell
Caleb
Jesse and Beth Chapman
Dr. Lichuan Emily Chen
Jovy Cheng
Brian and Joy Cheng
Ron and Joan Clark
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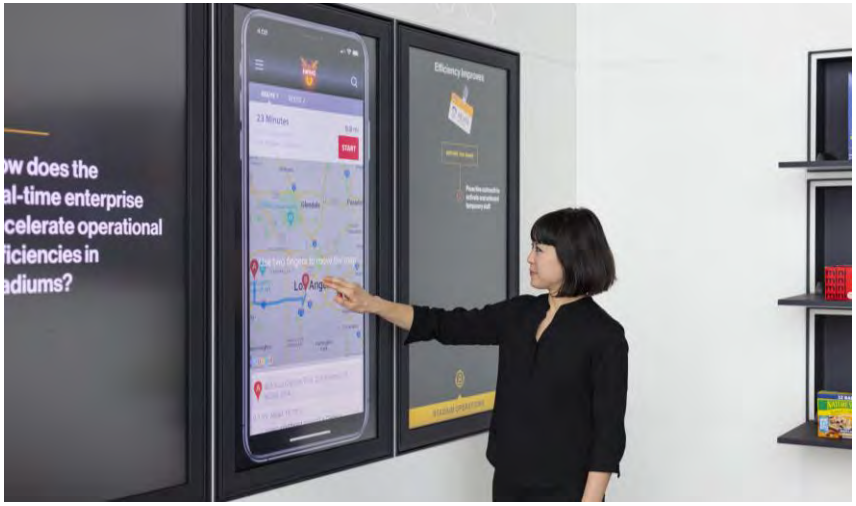
Megan Cole
Anna Belle Cook
Barry and Paula Corey
Terrell Covington
Jeff and Kyle Davis
Hilary Dempster
Z and Sharon Divjak
Don and Amy Dry
Al and Elaine Dykema
Kathy Ebbs
Ruth E. Ebeling
Eisenpeter Family
Ed and Helen Esh
Kent and Kelley Evans
Steven P. Ferguson
Jacquelyn Flora
Marilyn Freeman
The Jonathan Fund
Yesenia Garcia

TECHNOLOGY

- Wi-Fi is possible with special permission and extra RF requirements
- Tablets and laptops
- Zero client solutions
- If mobile devices cannot be used, bring the technology to every collaboration area
- Thin versus Thick PC
- Multiple PCs on work surface



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TECHNOLOGY

- Flexibility for task requirements
- Minimal printing
- AV conference
- Conference room reservations
- Access control
- Acoustical Control
- Everything in conduit in door frames

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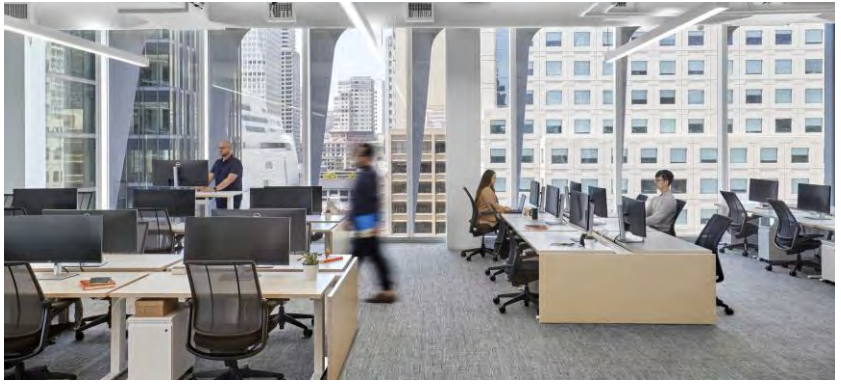
CONNECTIVITY TO OUTSIDE WORLD

CONNECTIVITY TO OUTSIDE WORLD

- Connection to family
- Flexible work styles
- Monitors with CNN / ESPN
- Exterior glazing / views to the outside



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LIGHTING

LIGHTING

- Circadian lighting systems
- Natural light is possible with shading
- Lighting can assist in wayfinding
- Lighting of art, displays and graphics is important

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BIOPHILIA

BIOPHILIA

- Bringing outside in
- Plants
- Graphics and branding
- Image relief
- Exterior landscaping interface

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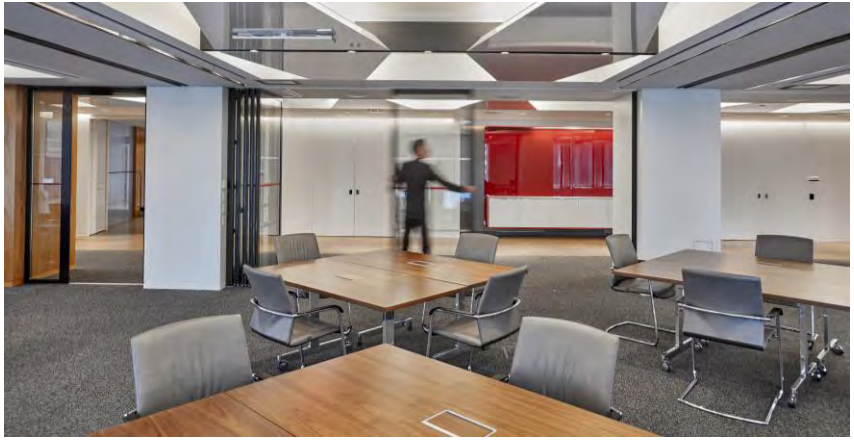
EDUCATIONAL INTERFACE

EDUCATIONAL INTERFACE

- Training is critical
- Accessible for outside participants
- Semi-separated
- Close to food service
- Close to unclassified



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CLASSIFIED VS UNCLASSIFIED

CLASSIFIED VS UNCLASSIFIED

- Access between the two areas allows for flexible workspace
- Flex space is consideration
- Storage of laptops / phones is critical
- Labyrinth concept for transition
- Public access in unclassified

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ACCESS TO FOOD SERVICE

ACCESS TO FOOD SERVICE

- Quality is important
- Ease of access to avoid leaving secure envelope
- Variety
- Options for seating
- Exterior access

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ACCESS TO FITNESS

ACCESS TO FITNESS

- Unclassified function
- Full service - trainers
- Locker and shower rooms
- Group exercise (Yoga, Pilates, etc.)
- Boxing
- Cross Training
- Ropes

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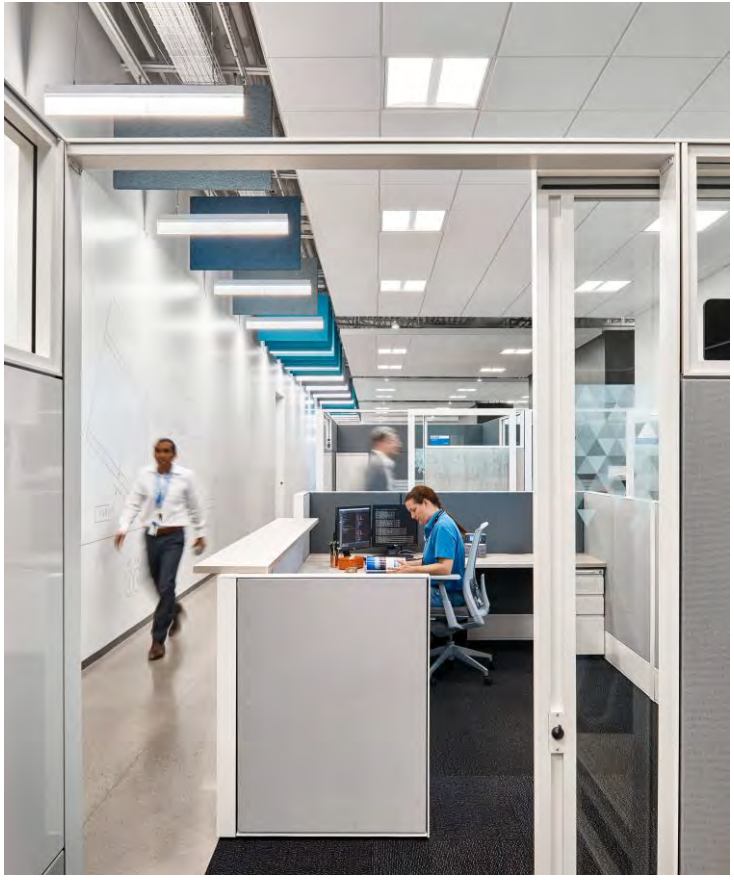
ON-DEMAND SCIF

ON-DEMAND SCIF

- Could be WeWork concept
- Overall facility is compliant
- Vendors and consultants close to secure facilities
- Flexibility; one workstation or suite
- Technology is compliant
- Could be within a non-secure space



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Summary

- The demand for more user-friendly SCIF space will grow
- An increased need for SCIF space applies to both the Government and Private sectors
- Sustainability and universal design must be a priority
- Do not underestimate the complexity of SCIF construction
- Coordination with the AO and end users is critical

SCIF BACKGROUND

- National Security Council Intelligence Directives (NSCID) provide the origins of the current ICD/ICS 705 and date back to the late 1940s
- Later, Director of Central Intelligence Directives (DCIDs) provided directions for secure spaces. SCIF Construction Criteria was issued in DCID 1/21 (1994) and updated in DCID 6/9 in 2002.
- ICD / ICS 705 dates to 2010 Intelligence Community Directive (ICD) 705. It rescinded DCID 6/9. It is used by the US Intelligence agencies. Known as **IC Tech Spec V1.5**
- UFC 4-010-05 SCIF Planning, Design, and Construction is based on ICD / ICS 705 Technical Specifications and dates to 2013.
- SAFP (Special Access Program Facilities) vs SCIF - DoD manual 5205.7 adopted Tech Manual in 2016. Term is used by the Department of Defense