Systems Engineering Education Development Program
Goddard Space Flight Center
Systems Engineering Development Programs Collaboration Kickoff Meeting
May 17, 2012
• SEED leverages existing development programs to achieve goals in engineering workforce development:
  – Professional Internship Program
  – Science & Engineering Collaboration Program
  – Hands On Project Experience
  – Technical Managers Training
  – Product Development Lead Training Program
  – Systems Engineering Leadership Development Program
• Our Cornerstone Program! SEED provides a pipeline of entry level systems engineers to support GSFC’s ongoing mission and instrument pre-formulation, formulation, and implementation efforts

• The program includes:
  – Individualized assessments and development plans
  – Rotational assignments on direct mission work (at least one year in length)
  – Systems Engineering and Leadership training including tools, techniques, and methodologies that have practical application as a technical lead.
    • Seventeen processes of systems engineering
    • Technical (exposure to disciplines)
    • Role of the systems engineer throughout the project lifecycle (Technical Architect to Technical Authority)
    • Practices, guidelines, case studies, policies, and procedures
    • Agency’s overarching policies and procedures
    • Training on budget and schedule management (planning, tracking, and reporting).

• The Systems Engineering stakeholder community provides mentoring, coaching, lessons learned, and technical training.

• SEED collaborates with the Office of Human Capital Management for gap analyses, individual assessments, training, coaching, program evaluation, and career planning.
95% of SEED participants graduated from the program and 89% of the
• Recently completed SEED Program evaluation
• Established SEED Steering Committee with representation from Systems Engineering Organizations, Project Management, and OHCM. The role is to:
  – Assist with evaluation of program
  – Determine readiness of participants to graduate
  – Review and concur with training curriculum
  – Help identify rotational assignments
  – Provide guidance on program design and execution
• Planning for call in June timeframe