Project GWU # 2

- Title: Plasma Simulation Validation
- **PI(s):** Michael Keidar and Carles Corbella, George Washington University
- Need and Relevance: validation of new codes for high-pressure plasma processing, nanoparticle synthesis
- Goals: to develop plasma diagnostics for code validations
- Approach: develop new diagnostics, hypothesis and validation
- Outcomes/Deliverables: diagnostics, code validation
- Project Duration, Budget: 2 years / \$50k/year







Need and Relevance





















Approach









Outcomes/Deliverables









Project Timeline and Duration

Task / month	H	7	m	4	Ŋ	9	۲	∞	6	10	11	12
Experiments with pulsed arc	Х	Х	Х	Х								
Plasma parameters measurements (Langmuir probe)				х	х	х	х					
Optical diagnostics							х	х	Х	Х		
TechX Code validation for various electrode materials									х	х	х	х









Project Budget

Item	Cost
Post-doc support	\$ 35,000.00
Supplies	\$ 7,000.00
Purchased services	\$ 0.00
Equipment	\$ 0.00
Travel	\$ 3,000.00
Project total*	\$ 45,000





