WHAT IS CLAIMED IS:

1. A tool for inspecting, repairing, or both a component within a gas turbine engine comprising:

an elongated insertion member; and

an implement body attached to the elongated insertion member, the elongated insertion member configured to guide the implement body within the interior of the gas turbine engine, the implement body comprising a base and a spray head, the spray head moveably coupled to the base and moveable between a retracted position and an extended position relative to the base;

wherein the implement body comprises a stationary portion and a rotating portion, the rotating portion comprises the base and the spray head and is rotatably coupled to the stationary portion; and

wherein the stationary portion comprises one or more motors positioned for selectively rotating the rotating portion.

2. The tool of claim 1, wherein the implement body defines a smaller cross-sectional profile when the spray head is in the retracted position to facilitate insertion of the implement body into an interior of the gas turbine engine.

3. The tool of claim 1, wherein the implement body further comprises a vision system positioned at least partially within or coupled to the base.

4. The tool of claim 3, wherein the vision system defines a field of view, wherein the spray head includes an outlet, and wherein the outlet is within the field of view.

5. The tool of claim 1, wherein the elongated insertion member is a robotic arm tool.

6. The tool of claim 3, wherein the vision system comprises a plurality of cameras positioned spaced along a longitudinal direction.

7. The tool of claim 6, wherein the plurality of cameras comprises a first camera defining a first field of view and a second camera defining a second field of view, and wherein the first field of view overlaps with the second field of view defining an overlapping field of view.

8. The tool of claim 7, wherein an outlet of the spray head is within the overlapping field of view.

9. The tool of claim 1, wherein the spray head is configured to spray a thermal barrier coating patch on a thermal barrier coating within the interior of the gas turbine engine.

10. The tool of claim 5, wherein the elongated insertion member comprises a base and the base of the elongated insertion member comprises one or more motors configured to actuate the robotic arm tool.

11. The tool of claim 1, wherein the elongated insertion member comprises a plurality of segments sequentially arranged and extending from ~~the~~a base of the elongated insertion member.

12. The tool of claim 1, wherein the spray head rotates at least 30 degrees between the retracted position and the extended position.

13. The tool of claim 1, wherein the spray head rotates at least 90 degrees between the retracted position and the extended position.

14. The tool of claim 1, wherein the spray head is spring loaded.

15. The tool of claim 1, wherein the elongated insertion member comprises a fluid passageway extending along a length thereof, and the spray head is fluidly connected to a fluid source through the fluid passageway.

16. The tool of claim 15, wherein the fluid passageway is configured to provide repair material, cleaning and conditioning fluid, or curing fluid.

17. The tool of claim 15, wherein the elongated insertion member comprises a plurality of fluid passageways selectively in fluid communication with the spray head, each of the plurality of fluid passageways providing a different type of fluid.

18. The tool of claim 1, wherein the implement body is configured to rotate the spray head during spray operation.