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## PO46 - Tools / Developments done by the ESRF Operators

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“Since the start of ESRF, the tasks entrusted to machine operators have not been only confined to operating, monitoring and ensuring the safety of installations.

Depending on their level of computer knowledge and availability, they develop interfaces and servers to control equipment (in collaboration with the experts), and complement those created by the dedicated group.

These in-house developments motivate operators to maintain their level of machine knowledge, and also help maintain communication with other groups.

Tools such as Python, Jdraw and Java provide graphical solutions for monitoring one or more parameters (voltage, supply current, etc.), or analyzing cluster failures to trace the source of a fault.

The applications created also serve as mock-ups for future high-level applications, with an Operation point of view in addition to that of the Expert, and the programmer...”

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**Session Classification:** Poster / Demo Sessions